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CET 2014

Actual paper

(memory based)

Note: Due to NDA .. None of the these questions are taken from Actual paper but just a sample to give you an Idea about types of questions coming in CET.

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High Star Toll booth is the award given to the toll which charges highest rates. Which of the following toll booths won the High Star Toll booth award.

- a) Toll A
- b) Toll B
- c) Toll C
- d) Toll D
- e) Toll A and B

13

Find the fraction value of ratio of the total toll prices at Toll A to that of C in Evening and Night

- a) 2.12
- b) 0.65
- c) 1.18
- d) 3.12
- e) 1.25

14

Find the average toll collected at toll booth D.

- a) 44
- b) 39
- c) 47
- d) 49
- e) 51

15

How much Percentage is Toll price at Toll A in the morning with respect to Toll D morning.

- a) 44
- b) 39
- c) 47
- d) 49
- e) 51

16

Following question, consists of unmarked figures followed by five figures marked 1, 2, 3, 4, and 5. Select the figure from the marked figures which will replace the question mark so that a series be established by the unmarked figures.

- a. 1
- b. 2
- c. 3
- d. 4
- e. 5

17

Following question consist of unmarked figures followed by five figures marked 1, 2, 3, 4 and 5. Select a figure from the marked figures which will continue the series established by the unmarked figures.

- a. 1
- b. 2
- c. 3
- d. 4
- e. 5

18 – 24 Answer the questions on the basis of the information given below.

A, B, C, D, E, F, G, H, I and J are 10 friends. These 10 friends are divided into three different groups namely group X, group Y and group Z. Each group must contain at least two friends.

1. B and J are in the same group.
2. D, E and F are in different groups.
3. A is in group X.
4. C is not in group Y and D is not in group Z.
5. H, I and C are in the same group.

18

If C and D are in the same group and one of the groups has exactly three friends, then which of the following can never be in the group which has exactly three friends?

- a) B
- b) E
- c) F
- d) G
- e) A

19

If F is in group X and G is not in group Y, then how many of the following pairs of friends cannot be in the same group?

- I. (J, F)
- II. (D, G)
- III. (C, E)
- IV. (D, I)
- V. (B, E)
- VI. (A, H)

- a) 5
- b) 4
- c) 3
- d) 2
- e) 1

20

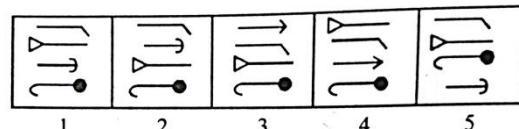
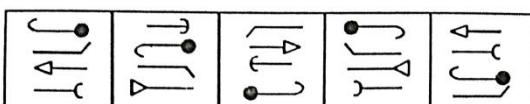
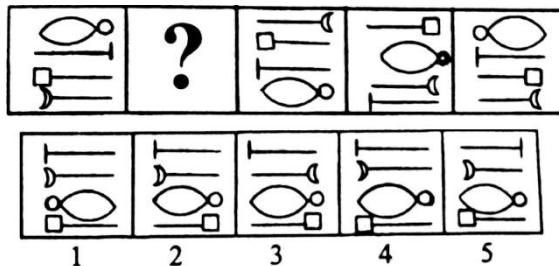
If one of the groups has exactly six friends, then which of the following people can never be in that group?

- a) A
- b) G
- c) D
- d) A, G and D
- e) B

21

If there are exactly five friends in group Z, then which of the following people is definitely in group Y?

- a) J
- b) D
- c) E



- d) G
- e) A

22

Which of the following pairing is not possible in a group?

- a) C, Y
- b) Y, D
- c) F, Y
- d) E, F
- e) All of the above

23

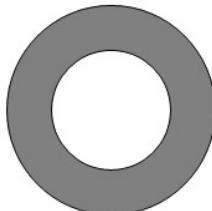
Which of the following pairing is not possible together?

- a) DE
- b) EF
- c) DF
- d) DZ
- e) All of the above

24

Which of the following pairing can possible together?

- a) BJ
- b) AX
- c) HI
- d) CY
- e) All of the above



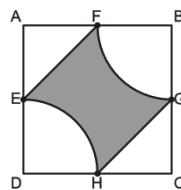
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25

In the figure shown, if the area of the shaded region is 3 times the area of the smaller circular region, then the circumference of the larger circle is how many times the circumference of the smaller circle?

- a) 3
- b) 1
- c) 2
- d) 4
- e) 5



26

H,G,F and E are midpoints of the sides of square ABCD. Arcs FG and EH are centered at B and D respectively, as shown above. If the side of the square ABCD is 4, what is the area of the shaded region HEFG?

- a) $4(3-\pi)$
- b) $5(3-\pi)$
- c) $2(3-\pi)$
- d) $2(6-\pi)$
- e) $4(6-\pi)$

27

Government representative: Between 1996 and 2005, the gray wolf population in Minnesota grew nearly 50 percent; the gray wolf population in Montana increased by only 13 percent during the same period. Clearly, the Minnesota gray wolf population is more likely to survive and thrive long term.

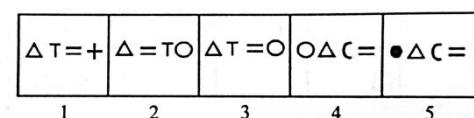
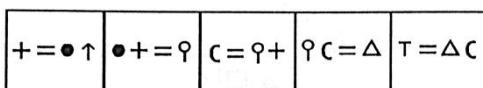
Environmentalist: But the gray wolf population in Montana is nearly 8 times the population in Minnesota; above a certain critical breeding number, the population is stable and does not require growth in order to survive.

The environmentalist challenges the government representative's argument by taking which of the following course of action?

- a) introducing additional evidence that undermines an assumption made by the representative
- b) challenging the representative's definition of a critical breeding number
- c) demonstrating that the critical breeding number of the two wolf populations differs significantly
- d) implying that the two populations of wolves could be combined in order to preserve the species
- e) suggesting that the Montana wolf population grew at a faster rate than stated in the representative's argument

28

Following question consist of unmarked figures followed by five figures marked 1, 2, 3, 4 and 5. Select a figure from the marked figures which will continue the series established by the

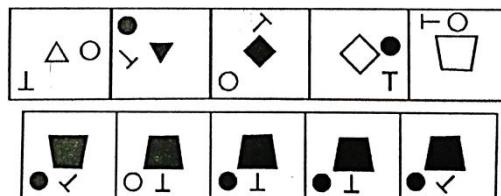


unmarked figures.

- a. 1
- b. 2
- c. 3
- d. 4
- e. 5

29

Following question consist of unmarked figures followed by five figures marked 1, 2, 3, 4 and 5. Select a figure from the marked



figures which will continue the series established by the unmarked figures.

- a. 1
- b. 2
- c. 3
- d. 4
- e. 5

30

Read the following passage and answer the following question.

India's economic growth rate picked up strongly in the most recent quarter, according to official figures. The economy expanded at an annual rate of 4.8% in the July-to-September period, up from 4.4% in the previous quarter. The acceleration was faster than analysts had been expecting. Asia's third-largest economy has been weighed down by various factors, such as high inflation, a weak currency and a drop in foreign investment. This is the fourth quarter in a row that India's annual growth rate has been below the 5% mark, and the previous quarter's rate of 4.4% was the lowest for four years.

Earlier this year, the Indian prime minister's economic advisory council lowered the growth outlook for the current financial year. It now expects the economy to expand by 5.3% this year, down from its earlier projection of 6.4%. India's economy has been hurt by a range of factors in recent months, including a slowdown in key sectors such as mining and manufacturing. Slowing growth, coupled with a recovery in developed markets, such as the US, has made India a less attractive option for foreign investors. Speculation that the US may scale back its key economic stimulus measure has seen investors pull money out of emerging markets, such as India. This has affected India's currency, which dipped nearly 25% against the US dollar between January and September this year.

According to the passage which of the following reason(s) for slow economic growth of India?

- (A) Slowdown in key sectors
- (B) Weaker currency
- (C) Reduction in foreign investment

- a) A alone
- b) B alone
- c) C alone
- d) A & B both
- e) All of the above.

31

Which of the following is lowest quarterly growth rate in last four years?

- a) 4.40%
- b) 5%
- c) 5.30%
- d) 3.50%
- e) Cannot be determined

32

Which of the following statements is true from the given passage?

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- a) There is rapid growth in developed markets, such as the US
- b) Slower growth is the only reason for making India a less attractive option for foreign investors.
- c) Speculation that the US may not scale back its key economic stimulus measure
- d) US may scale back its key economic stimulus measure will affect all emerging markets
- e) Russia's currency, dipped nearly 25% against the US dollar

33

Which of the following can be inferred from the passage about economic condition of India?

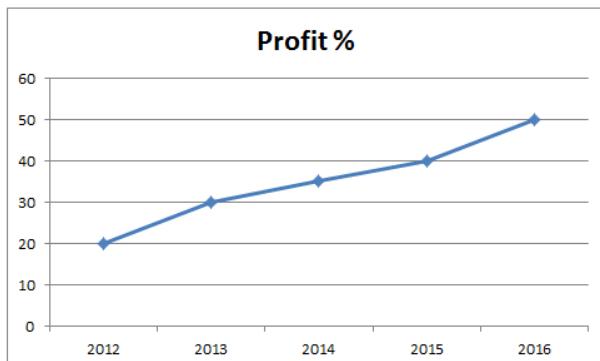
- a) India was earlier Second largest economy but after slowdown is now ranked third.
- b) India's growth rate is below 5% for last one year
- c) Rupee will appreciate from next quarter
- d) Economic advisory council intentionally lowered the growth outlook
- e) Economy in developed countries is now booming

34

Which of the following reason(s) has made India less attractive for foreign investors?

- (A) Speculation that the US may scale back its key economic stimulus measure
- (B) Recovery in developed markets
- (C) India's currency dipping nearly 25% against the US dollar
- a) A alone
- b) B alone
- c) C alone
- d) A & B both
- e) All of the above.

35 - 39 The following line graph gives the annual percent profit earned by a Company during the period. Percent Profit Earned by a Company Over the Years is given in the graph.



Percent Profit Earned by a Company Over the Years.

$$\% \text{Profit} = \frac{\text{Income} - \text{Expenditure}}{\text{Expenditure}} \times 100$$

35

During which of the following year was the ratio of income to the expenditure the minimum?

- a) 2012
- b) 2013
- c) 2014

- d) 2015
- e) 2016

36

During which year the ratio of percentage profit earned to that in the previous year is the minimum?

- a) 2013
- b) 2014
- c) 2015
- d) 2016
- e) Cannot be Det

37

If the profitability in 2017 is 60% and expenditure in 2017 is 25% more than expenditure in 2016, then the income in 2016 is what percent less than the income in 2017?

- a) 20
- b) 25
- c) 30
- d) 40
- e) 55

38

If expenditure in 2015 is 30,000/- find the Income in 2015?

- a) 21000
- b) 40000
- c) 42000
- d) 36000
- e) 51000

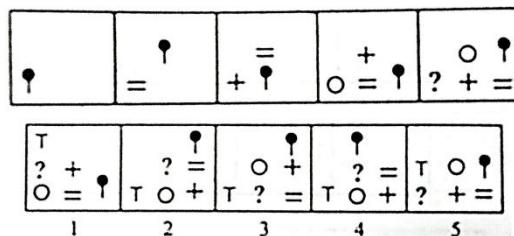
39

If the expenditures in 2012 and 2016 are equal, then the approximate ratio of the income in 2012 and 2016 respectively is?

- a) 5/7
- b) 5/9
- c) 1/7
- d) 4/5
- e) 1/9

40

Following question consist of unmarked figures followed by five



figures marked 1, 2, 3, 4 and 5. Select a figure from the marked figures which will continue the series established by the unmarked figures.

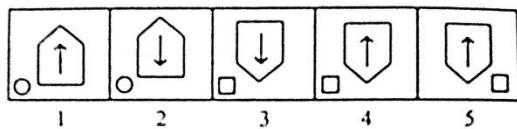
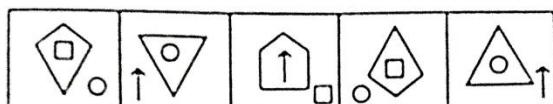
- a. 1
- b. 2
- c. 3
- d. 4
- e. 5

41

Following question consist of unmarked figures followed by five figures marked 1, 2, 3, 4 and 5. Select a figure from the marked figures which will continue the series established by the unmarked figures.

- a. 1
- b. 2
- c. 3
- d. 4
- e. 5

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42

If $P^Q = 256$. Then find the possible value of $(P + Q) / 2$

- a) 2
- b) 4
- c) 6
- d) 8
- e) 10

43 – 49 Indian Railways has started seven new summer special trains which originate from seven different stations, viz. Agra, Bandra, Chambal, Daund, Egmore, Fatehpur, and Gandhinagar. All the trains terminate at either of the two stations viz. New Delhi (ND) or Hazrat Nizamuddin (HN). Each of these seven trains runs via only one of the three intermediate stations viz. Kanpur, Lucknow, and Varanasi. The train originating from Chambal terminates at Hazrat Nizamuddin. The trains originating from Daund and Egmore terminate at different stations.

The number of trains terminating at New Delhi is more than the number of trains terminating at Hazrat Nizamuddin, and the number of trains running via Kanpur is twice the number of trains running via Lucknow. The trains originating from Agra and Fatehpur terminate at the same station. The only train running via Varanasi originates from Egmore. All the trains that run via either Varanasi or Lucknow terminate at Hazrat Nizamuddin.

43

Out of the following, which were definitely the originating stations of the trains that terminated at the Hazrat Nizamuddin station?

- a) Chambal, Daund and Gandhinagar.
- b) Chambal, Bandra, and Egmore.
- c) Chambal, Egmore, and Gandhinagar.
- d) Chambal, Egmore, and Bandra.
- e) None of the above.

44

Given below are two statements made on the basis of the information provided. Choose the best option that follows.

Statement I: The train originating from Gandhinagar runs via Lucknow.

Statement II: The train originating from Bandra terminates at Hazrat Nizamuddin.

- a) Both the statements I and II are definitely true.
- b) Statement I is true but statement II is false.
- c) One of the two statements I and II is true.
- d) Statement I is false but statement II is true.
- e) None of these

45

Due to heavy rush half of the trains terminating at the New Delhi station will now terminate at the SDA station. If the train originating from Bandra terminates at New Delhi, then which of the following statements is definitely false?

- a) The train originating from Gandhinagar terminates at SDA

- b) The train originating from Daund terminates at SDA
- c) The train originating from Agra runs via Lucknow
- d) The train originating from Agra runs via bandra
- e) More than one of the above.

46

Train originating from agra is terminating at which station?

- a) Kanpur
- b) New Delhi
- c) Lucknow
- d) Daund
- e) Bandra

47

Train originating from Fatehpur is terminating at which station?

- a) Kanpur
- b) New Delhi
- c) Lucknow
- d) Daund
- e) Bandra

48

How many trains terminate at New Delhi?

- a) 2
- b) 3
- c) 3 or 5
- d) 4 or 6
- e) 2 or 4

49

Out of the following, which is the Intermediate Station for train from Chambal?

- a) Kanpur
- b) New Delhi
- c) Lucknow
- d) Daund
- e) Bandra

50

Each Machine of type A has 3 steel parts and 2 chrome parts. Each machine of type B has 4 steel parts and 7 chrome parts. If a certain group of type A and type B machines has a total of 20 steel parts and 22 chrome parts, how many machines are in the group

- a) 2
- b) 3
- c) 4
- d) 6
- e) 8

51

In the following series, a wrong number is given. Find out that wrong number, and decide which option should replace that wrong number.

15 46 63 71 75 77 78

- a) 15
- b) 47
- c) 63
- d) 71
- e) 75

52

In the following series, a wrong number is given. Find out that wrong number, and decide which option should replace that wrong number.

10, 21, 43, 85, 175

- a) 10
- b) 21

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- c) 43
- d) 85
- e) 175

53

In the following series, a wrong number is given. Find out that wrong number, and decide which option should replace that wrong number.

1 4 8 9 25 16 64

- a) 1
- b) 4
- c) 8
- d) 9
- e) 27

54

In the following question a series is given and it is followed by the starting point of another series. After this, a question is given, you have to complete the second series by applying the same logic as in the first given series, and then you have to answer the question.

5 8 12 17 23 30
9 a b c d e

Which number should come in place of c?

- a) 12
- b) 21
- c) 15
- d) 19
- e) 25

55

8 9 13 22 38 63
12 a b c d e

Which number should come in place of d?

- a) 42
- b) 21
- c) 15
- d) 19
- e) 25

56 – 57 Commercial interests among stem cell companies for the procedure has been scant because of the perceived small volume of patients, says venture capitalist Antoun Nabhan of Bay Capital, who sits on the board of Cellerant, a leading stem cell company in San Carlos. These techniques of growing stem cells might one day be used to treat mucous membrane tissue in the sinuses, bladder, and other organs he also said.

56

Which of the following could be a course of action by stem cell companies?

- a) Venture capitalist Antoun Nabhan of Bay Capital wants create awareness so that the production increases at stem cell companies
- b) Right now awareness and success rate of Stem cells treatment is very high but still needs more research in the field to call it a successful treatment remedy
- c) Raise more funds from the markets to cover the production costs by stem cell companies
- d) Conduct more and more awareness campaigns showcasing the success stories and gain public trust.
- e) Venture capitalist Antoun Nabhan of Bay Capital wants to sell his stake in the stem cells companies

57

Which of the following statements if true will strengthen the claim by the venture capitalist?

- a) Venture capitalist Antoun Nabhan of Bay Capital wants create awareness so that the production increases at stem cell companies
- b) Right now awareness and success rate of Stem cells treatment is very high but still needs more research in the field to call it a successful treatment remedy
- c) Raise more funds from the markets to cover the production costs by stem cell companies
- d) Conduct more and more awareness campaigns showcasing the success stories and gain public trust.
- e) Venture capitalist Antoun Nabhan of Bay Capital wants to sell his stake in the stem cells companies

58

Study the following information and answer the given questions:

In a certain code language:

'School is far from here' is written as 'to ga di ba ni'
'here is the school bus' is written as 'ru to ni di zi'
'come from school' is written as 'ga ni mo'
'is the bus late' is written as 'ru zi fa to'

What does the code 'ga' stand for in the given code language?

- a) From
- b) here
- c) far
- d) is
- e) where

59

What s the code for 'late' in the given code language?

- a) to
- b) fa
- c) zi
- d) ru
- e) none of these

60

What will the code 'fa mo ba' stand for in the given code language?

- a) come for late
- b) bus for late
- c) come far school
- d) come late from
- e) none of these

61

What may the code 'ru mo di' stand for in the given code language?

- a) the bus here
- b) come from here
- c) come the late
- d) come the here
- e) late is come

62

What is the code for 'school' in the given code language?

- a) ba
- b) di
- c) ni
- d) ga
- e) none of these

63 – 70 Solve the following question based on the data given below.

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Price of Maruti is 50% less than that of Xcent. Mercedes being expensive car is 3 times that of Xcent. Audi is 20% cheaper than BMW. BMW is 5/7 of Mercedes. Xcent is 4/5 of City. Cost of City is 11 Lacs rupees.

63

Which of the following cars is most expensive?

- a) City
- b) Maruti
- c) Xcent
- d) BMW
- e) Mercedes

64

Find the ratio of the price of Mercedes / Maruti ?

- a) 6/1
- b) 3/4
- c) 5/1
- d) 4/1
- e) 3/1

65

How many cars are there whose cost is more than the average of all the cars

- a) 1
- b) 2
- c) 3
- d) 4
- e) 5

66

Cost of BMW is how much percentage more than cost of maruti?

- a) 210
- b) 300
- c) 330
- d) 250
- e) 280

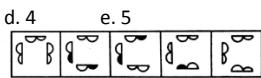
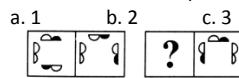
67

Which of the following cars is the second most cheapest car?

- a) City
- b) Maruti
- c) Xcent
- d) BMW
- e) Mercedes

68

In the following problem, two sets of related pair of figures is given followed by five numbered pairs of figures. Select a figure that will fit into the question mark.



69

How many such pairs of letters are there in the word GUARDIAN each of which has as many letters between them in the word as in the English alphabet ?

- a) One
- b) Two
- c) Three
- d) Four
- e) Five

70

Commercial interests among stem cell companies for the procedure has been scant because of the perceived small volume

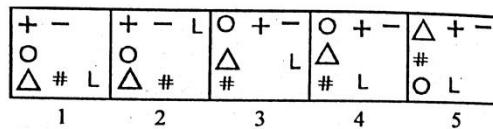
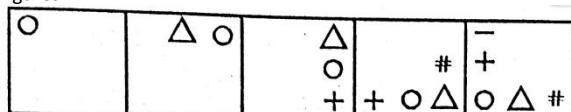
of patients, says venture capitalist Antoun Nabhan of Bay Capital, who sits on the board of Cellarant, a leading stem cell company in San Carlos. These techniques of growing stem cells might one day be used to treat mucous membrane tissue in the sinuses, bladder, and other organs he also said.

Which of the following represents the intention of the venture capitalist

- a) Venture capitalist Antoun Nabhan of Bay Capital wants to create awareness so that the production increases at stem cell companies
- b) Right now awareness and success rate of Stem cells treatment is very high but still needs more research in the field to call it a successful treatment remedy
- c) Raise more funds from the markets to cover the production costs by stem cell companies
- d) Conduct more and more awareness campaigns showcasing the success stories and gain public trust.
- e) Venture capitalist Antoun Nabhan of Bay Capital wants to sell his stake in the stem cells companies

71

Following question consist of unmarked figures followed by five figures



marked 1, 2, 3, 4 and 5. Select a figure from the marked figures which will continue the series established by the unmarked figures.

- a. 1
- b. 2
- c. 3
- d. 4
- e. 5

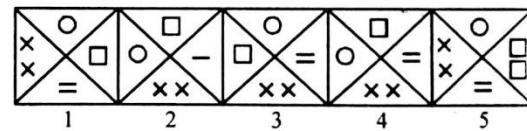
72

Following question consists of unmarked figures followed by five figures marked 1, 2, 3, 4, and 5. Select the figure from the marked figures which will replace the question mark so that a series be established by the unmarked figures.

Problem Figures



Answer Figures



- a. 1
- b. 2
- c. 3
- d. 4
- e. 5

73 - 78

In each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and Give answer.

- a) Statement (1) ALONE is sufficient to answer the question, but statement (2) alone is NOT sufficient.

- b) Statement (2) ALONE is sufficient to answer the question, but statement (1) alone is NOT sufficient.
- c) BOTH statements (1) and (2) TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient.
- d) Each statement ALONE is sufficient to answer the question.
- e) Statements (1) and (2) TOGETHER are NOT sufficient to answer the question.

73

Train A leaves New York for Boston at 3 PM and travels at the constant speed of 100 mph. An hour later, it passes Train B, which is making the trip from Boston to New York at a constant speed. If Train B left Boston at 3:50 PM and if the combined travel time of the two trains is 2 hours, what time did Train B arrive in New York?

- (1) Train B arrived in New York before Train A arrived in Boston.
- (2) The distance between New York and Boston is greater than 140 miles.

74

Of the students who eat in a certain cafeteria, each student either likes or dislikes lima beans and each student either likes or dislikes brussels sprouts. Of these students, $\frac{2}{3}$ dislike lima beans; and of those who dislike lima beans, $\frac{3}{5}$ also dislike brussels sprouts. How many of the students like brussels sprouts but dislike lima beans?

- (1) 120 students eat in the cafeteria
- (2) 40 of the students like lima beans

75

If x , y and z are integers and $xy + z$ is an odd integer, is x an even integer?

- (1) $xy + xz$ is an even integer
- (2) $y + xz$ is an odd integer

76

What is the area of rectangular region R?

- (1) Each diagonal of R has length 5.
- (2) The perimeter of R is 14.

77

Of the 60 animals on a certain farm, $\frac{2}{3}$ are either pigs or cows. How many of the animals are cows?

- (1) The farm has more than twice as many cows as pigs
- (2) The farm has more than 12 pigs

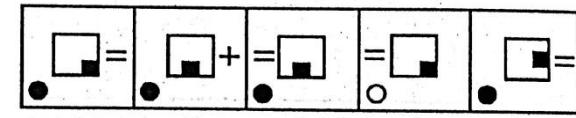
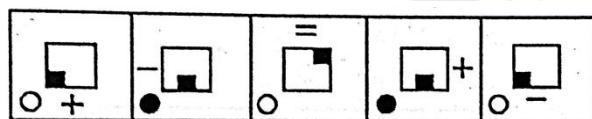
78

Peter invested a certain sum of money in a simple interest bond whose value grew to Rs 300 at the end of 3 years and to Rs 400 at the end of another 5 years. What was the rate of interest in which he invested his sum?

- a) 8.33
- b) 13.33
- c) 6.67
- d) 11.11
- e) 9.09

79

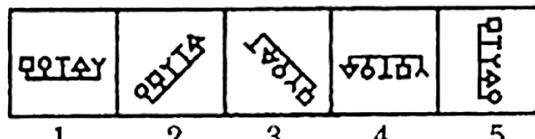
Following question consist of unmarked figures followed by five figures marked 1, 2, 3, 4 and 5. Select a figure from the marked figures which will continue the series established by the unmarked figures.



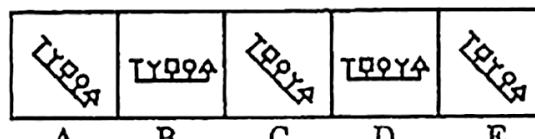
- a. 1
- b. 2
- c. 3
- d. 4
- e. 5

80

Following question consist of unmarked figures followed by five figures marked 1, 2, 3, 4 and 5. Select a figure from the marked figures which will continue the series established by the unmarked figures.



- 1
- 2
- 3
- 4
- 5



- A
- B
- C
- D
- E

- a. 1
- b. 2
- c. 3
- d. 4
- e. 5

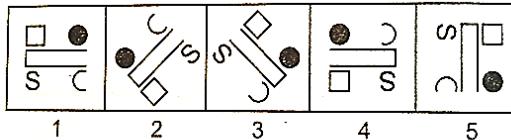
81

A bag contains 3 white balls, 3 black balls & 2 red balls. One by one three balls are drawn out without replacement. What is the probability that the third ball is red?

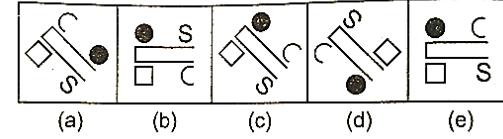
- a) 0.25
- b) 0.15
- c) 0.5
- d) 0.4
- e) 0.6

82

Following question consist of unmarked figures followed by five figures marked 1, 2, 3, 4 and 5. Select a figure from the marked figures which will continue the series established by the unmarked figures.



- 1
- 2
- 3
- 4
- 5

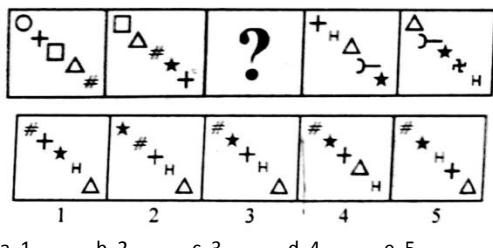


- (a)
- (b)
- (c)
- (d)
- (e)

- a. 1
- b. 2
- c. 3
- d. 4
- e. 5

83

Following question, consists of unmarked figures followed by five figures marked 1, 2, 3, 4, and 5. Select the figure from the marked figures which will replace the question mark so that a series be established by the unmarked figures.



84

- 5 sentences of a paragraph are given below and jumbled up.
- Though Darwin himself was not an avowed atheist, today more than ever his theory represents the embattled front line in the confrontation between religion and atheism, as espoused by neo-Darwinists like Richard Dawkins, Sam Harris and others.
 - However, many in India and not just those belonging to the Christian faith find themselves uncomfortable with the either/or position of the radical neo-Darwinists: choose between a Creator and Darwin;
 - In India, Darwin is not the bogey man as he is in the West.
 - You can't have your God and believe in evolution too.
 - The Indic tradition which accommodates both atheism as well as a well-stocked pantheon of 33 million gods (including a monkey god) should have little problem playing host to evolution.

Which of the following sentence will be FIRST SENTENCE in the paragraph?

- a. A b. B c. C d. D e. E

85

Which of the following sentence will be SECOND SENTENCE in the paragraph?

- a. A b. B c. C d. D e. E

86

Which of the following sentence will be THIRD SENTENCE in the paragraph?

- a. A b. B c. C d. D e. E

87

Which of the following sentence will be FOURTH SENTENCE in the paragraph?

- a. A b. B c. C d. D e. E

88

Which of the following sentence will be FIFTH SENTENCE in the paragraph?

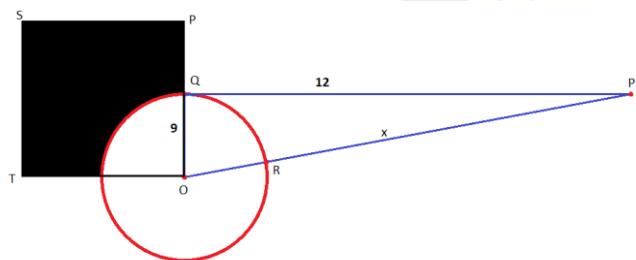
- a. A b. B c. C d. D e. E

89

How many even 3 digit integers greater than 700 with distinct non zero digits are there ?

- 729
- 243
- 108
- 88
- 77

90 & 91 In the figure given, PQ is a tangent of length 12 to the circle. O is the centre of the circle with radius 9. OTSP is a Square with one corner touching the centre of the circle at O and Q is the mid point of the side OP.



90

Find the value of PR?

- 9
- 12
- 15
- 6
- 8

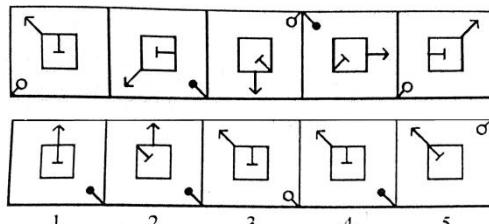
91

Find the area of the shaded portion of the square.

- $324(1 - \pi/2)$
- $324(1 - \pi/4)$
- $324(2 - \pi/4)$
- $324(3 - \pi/4)$
- $324(4 - \pi/4)$

92

Following question consist of unmarked figures followed by five figures marked 1, 2, 3, 4 and 5. Select a figure from the marked figures which will continue the series established by the unmarked figures.



- a. A b. B c. C d. D e. E

93 – 98 Directions: In each question below are given some statements followed by some conclusions. You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts.

- if only conclusion 1 follows
- if only conclusion 2 follows
- if only conclusion 3 follows
- if only conclusion 4 follows
- All follows

93

Some doors are walls

All walls are floors

All floors are rooms

Some rooms are windows

Conclusions:

- All walls are rooms
- Some rooms are doors
- Some rooms are walls

IV. Some floors are doors

94

Conclusions:

- I. Some windows are walls is a possibility
- II. Some doors are floors
- III. Some windows and floor

95

Statements:

- All chairs are rings
- Some rings are sticks
- All sticks are branches

Conclusions:

- I. Some branches are chairs
- II. Some branches are rings
- III. Some sticks are chairs

96

Conclusions:

- I. Some rings are branches is a possibility
- II. Some chairs are not sticks is a possibility
- III. Some branches are chairs is a possibility

97

Statements:

- All curtains are pillows
- No pillow is mattress
- Some mattresses are beds
- All beds are sofas

Conclusions:

- I. No bed is pillow
- II. Some mattresses are sofas
- III. Some beds are pillows

- a) if only conclusion 2 follows
- b) Only 2 and either 1 or 3 follow
- c) if only conclusion 3 follows
- d) if only conclusion 2 and 4 follows
- e) All follows

98

Conclusions:

- I. Some beds are sofa is a possibility
- II. Some books are not pillows

- a) if only conclusion 1 follows
- b) if only conclusion 2 follows
- c) if both follows
- d) if only 1 or 2 follows
- e) Neither 1 or 2 follows

100

Following question consist of unmarked figures followed by five figures marked 1, 2, 3, 4 and 5. Select a figure from the marked figures which will continue the series established by the unmarked figures.

+	-	?	=	+	=	?	×	-	=	-	×
x	=	-	x	+	-	?	+	+	=	+	?
=	x	x	x	-	-	=	x	?	=	x	=

+	-	+	=	+	×	+	-	?	-
?	-	?	-	?	=	?	-	+	-
=	x	x	x	-	-	=	x	=	x

a. 1

b. 2

c. 3

d. 4

e. 5

101 - 108

Study the following information to answer the questions.

Eight friends A, B, C, D, E, F, G and H are sitting in a circle, not necessarily in the same order. Four of them are facing outside and four of them are facing the centre. E faces outside &, both the immediate neighbours of E face the centre. H sits second to the right of E. B sits third to the left of E.

D faces the centre. Both the immediate neighbours of D face outside. G sits second to the left of A. B sits third to the right of H. F is an immediate neighbour D. C is an immediate neighbour of G. D is not an immediate neighbour of B.

101. Who amongst the following sits to the immediate rights of H?

- a) A
- b) D
- c) C
- d) G
- e) B

102

Who amongst the following sits third to the right of A

- a) D
- b) E
- c) F
- d) A
- e) B

103

If all the people are made to sit in alphabetical order, in clockwise direction, starting from A , the position of whom amongst the following remains the same (excluding A)

- a) E
- b) F
- c) C
- d) G
- e) A

104

Four of the following five are alike in a certain way, based on the information given above and so form a group. Which is the one that does not belong to that group?

- a) HA
- b) FH
- c) GC
- d) DE
- e) AE

105

Who amongst the following sits exactly between F and C (and also their neighbour)?

- a) E
- b) B
- c) G
- d) A
- e) C

106

How many people are seated between A and C (counting clockwise from A)?

- a) Two
- b) One
- c) None
- d) Three
- e) Four

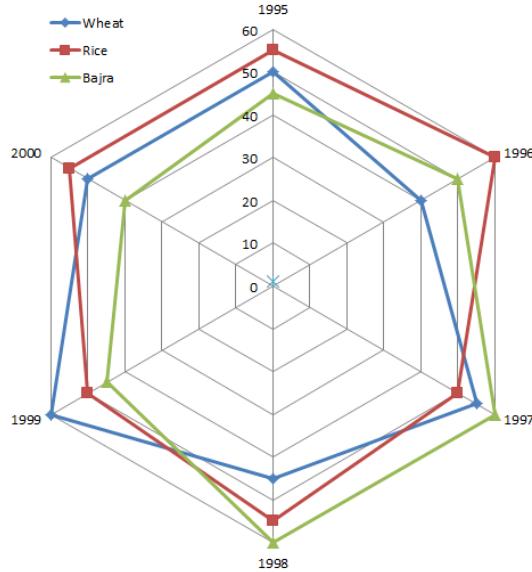
107

Who amongst the following sits to the immediate rights of A?

- a) A
- b) D
- c) C
- d) G
- e) B

108 – 112 A soft drink company prepares drinks of three different flavours

X, Y and Z. The production of the three flavours over a period of six years has been expressed in the form of a graph below. Study the bar graph and answer the question based on graph.



108

For which year the percent (rise/fall) in production from the previous year is the maximum for the flavour Y ?

- a) 1996
- b) 1997
- c) 1998
- d) 1999
- e) None of these

109

For which flavour was the average annual production maximum in given period of time ?

- a) Z
- b) X
- c) Y
- d) X and Z
- e) Y and Z

110

The total production of flavour Z in 1997 and 1998 is what percent of the total production of flavour X in 1995 and 1996 ?

- a) 125.33%
- b) 128.33%
- c) 131.33%
- d) 133.33%
- e) 139.33%

111

What is the difference between the average production of flavour X in 1995, 1996 and 1997 and the average production of the flavour Y in 1998, 1999 and 2000 ?

- a) 50,000 bottles
- b) 55,000 bottles
- c) 1,100,00 bottles
- d) 5,000,00 bottles
- e) 1,500,00 bottles

112

What was the approximate decline in the production of flavour Z in 2000 as compared to production in 1998 ?

- a) 30%
- b) 31%
- c) 32%
- d) 33%
- e) 35%

113

A student multiplied a number by $\frac{3}{5}$ instead of $\frac{5}{3}$. What is the percentage error.

- a) 33
- b) 44
- c) 54
- d) 64
- e) 74

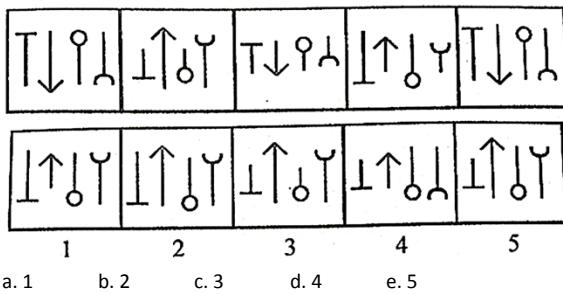
114

If in a right-angled triangle, the ratio of the longer leg to the shorter is $\sqrt{2}:1$, what is the ratio of the shorter leg to the hypotenuse?

- a) 1:3
- b) 1: $\sqrt{3}$
- c) $\sqrt{2}:\sqrt{3}$
- d) 3:2
- e) $\sqrt{3}:1$

115

Following question consist of unmarked figures followed by five figures marked 1, 2, 3, 4 and 5. Select a figure from the marked figures which will continue the series established by the unmarked figures.



116

Chief Minister: Electricity supply to the city falls drastically every summer. Power cuts affects the economy of the city even though sufficient funds and subsidies are given to power companies. We need to check the activity accounts of the power companies in the cities.

- What might be the reasoning behind the CM's claim of checking into accounts?
- Coal and gas power plants has become too expensive to operate these days
 - Power cuts are happening even though enough funds are allocated. There might be some fraudulent activies going on in the accounts of power companies.
 - Demand and supply is optimum in winter
 - CM had recently successfully reduced the water gap in the city by scrutinizing the water companies accounts
 - CM want to push for reforms for renewable sources of energy

117 – 122 Direction

If $A + B$ means A is the mother of B ;
 A / B means A is the brother of B ;
 $A \times B$ means A is the son of B and
 $A - B$ means A is the daughter of B ,

117

Which of the following means C is the niece of D ?

- $D - C$
- $D \times P - C$
- $C - P / D$
- $P + D / C$
- $D - P / C$

118

Then which of the following shows the relation Q is the maternal uncle of P ?

- $P + B - R \times Q$
- $P - B + R \times Q$
- $P + B \times R - Q$
- $P \times B - R + Q$
- None of these

119

$P \times Q$ means P is the sister of Q ;
 $P + Q$ means P is the father of Q ;
 $P - Q$ means P is the mother of Q .

Which of the following means S is the aunt of T ?

- $T \times M + S$
- $S + T \times M$
- $S \times M + T$
- $S \times M + R - T$

- e) $S \times R + M$

120

If $A + B$ means A is the brother of B ; A / B means A is the father of B and $A * B$ means A is the sister of B , which of the following means M is the uncle of P ?

- $N * P / M$
- $M + S / R / P$
- $M / N * P$
- $M + K / T * P$
- None of these

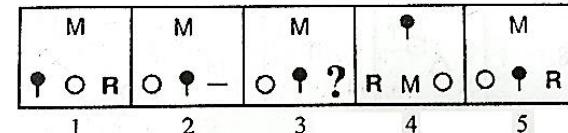
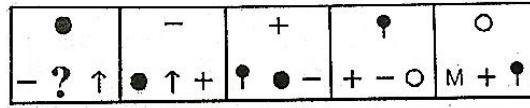
121

$P + Q$ means P is the brother of Q ; $P - Q$ means P is the mother of Q and $P * Q$ means P is the sister of Q . Which of the following means M is the maternal uncle of R ?

- $M + K + R$
- $M - R + K$
- $M + K - R$
- $M + K * R$
- None of these

122

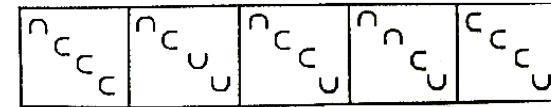
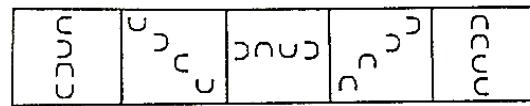
Following question consist of unmarked figures followed by five figures marked 1, 2, 3, 4 and 5. Select a figure from the marked figures which will continue the series established by the unmarked figures.



- a. 1 b. 2 c. 3 d. 4 e. 5

123

Following question consist of unmarked figures followed by five figures marked 1, 2, 3, 4 and 5. Select a figure from the marked figures which will continue the series established by the unmarked figures.



- a. 1 b. 2 c. 3 d. 4 e. 5

124

Rajesh, Mahesh and 7 other students are standing in a row for group photograph. If Ganesh and Mahesh wants to sit together in seat number 1 and 2. How many ways this can be arranged?

- 6!
- 7!

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- c) 8!
d) 9!
e) 5!

125

In the following problem, 5 sets of related pair of figures is given followed by five numbered pairs of figures. Select a figure which is odd man out.

- a. 1 b. 2 c. 3 d. 4 e. 5



126 – 130 Study the following information carefully to answer the given questions:

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule. The following is an illustration of input and the rearrangement.

Input : why is 25 bigger than 14 but smaller than 32
Step I : than 14 why is 25 bigger but smaller than 32
Step II : than 14 is 25 why bigger but smaller than 32
Step III : than 14 is 25 than 32 why bigger but smaller
Step IV : than 14 is 25 than 32 why smaller bigger but
Step V : than 14 is 25 than 32 why smaller but bigger
Step V is the last step of the arrangement of the above input as the intended rearrangement is obtained.

Input for the questions: any number less than 30 and more than 20 does not equal 40

Which step number would be the following output?
than 20 any number less than 30 and more does not equal 40

- a) III
b) IV
c) V
d) VI
e) None

127

Input for the questions: any number less than 30 and more than 20 does not equal 40

How many steps would be needed to complete the arrangement?

- a) X
b) VIII
c) IX
d) VII
e) None

128

Input for the questions: any number less than 30 and more than 20 does not equal 40

Which of the following would be step IV?

- a) than 20 than 30 equal 40 any number less and more does not
b) than 20 any number less than 30 and more does not equal 40
c) 20 30 40 than than equal number any less and more does not
d) 20 than 30 than 40 equal number any less and more does not
e) None of these

135

If TSEREVE and NOITACUDE stands for EVEREST and EDUCATION. Find the code for TROFDER ?

129

Input for the questions: any number less than 30 and more than 20 does not equal 40

Which of the following would be the step II?

- a) 20 than 30 than any number less and more does not equal 40
b) than 20 than 30 equal 40 any number less and more does not
c) than 20 than 30 any number less and more does not equal 40
d) than 20 than 30 any number less and more does not equal 40
e) None of these

130

Input for the questions: any number less than 30 and more than 20 does not equal 40

Which word/number would be on 8th position from left side in step V?

- a) any
b) not
c) 40
d) number
e) none

131

If in the word 'DISTURBANCE', the first letter is interchanged with the last letter, the second letter is interchanged with the tenth letter and so on, which letter would come after the letter T in the newly formed word?

- a) I
b) N
c) S
d) T
e) D

132

Following question, consists of unmarked figures followed by five figures marked 1, 2, 3, 4, and 5. Select the figure from the marked figures which will replace the question mark so that a series be established by the unmarked figures.

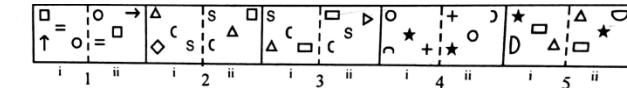
- a. 1 b. 2 c. 3 d. 4 e. 5



133

In the following problem, 5 sets of related pair of figures is given followed by five numbered pairs of figures. Select a figure which is odd man out.

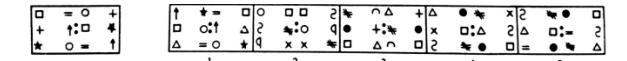
- a. 1 b. 2 c. 3 d. 4 e. 5



134

In the following problem, A sets of related pair of figures is given followed by five numbered pairs of figures. Select a figure that is similar to the given pair.

- a. 1 b. 2 c. 3 d. 4 e. 5



- a) RECFORT
b) REDFNRT
c) REDFORT

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- a) RECFNRT
e) RECFNRA

136 - 140

In each of the following questions assuming the given statements to be true, find out which of the two conclusions I and II given below them is/ are definitely true. In the following questions the symbols $>$, $<$, \geq , \leq & $=$ are used with the following meanings.

- 'A $>$ B' means A is neither smaller nor greater than B
 'A $<$ B' means A is neither smaller than nor equal to B
 'A \geq B' means A is not greater than B
 'A \leq B' means A is not smaller than B
 'A = B' means A is neither greater than nor equal to B

- a) If only Conclusion I is true
 b) If only Conclusion II is true
 c) If either Conclusion I or II is true
 d) If neither Conclusion I nor II is true
 e) If both Conclusion I and II are true

136

Statements:

$$Z = A, A < B, B > P, T \geq P$$

Conclusions:

- I. P = A
 II. Z \leq A

137

Statements:

$$K \geq T, V = Y, K < C, T \leq Y$$

Conclusions:

- I. T > C
 II. T < V

138

Statements:

$$R \geq S, S \geq T, T < P, R = B$$

Conclusions:

- I. T > R
 II. T < R

139

Statements: D=S, N + V, D x R, R + V

Conclusions:

- I. S + V
 II D+N

140

Statements:

$$K \times P, M + J, C \div P, K = M$$

Conclusions:

- I. M + P
 II. M x P

141 – 148 Study the following information to answer the questions.

Twelve people are sitting in two parallel rows containing 6 people each, in such a way that there is an equal distance between adjacent persons. In row-1 P, Q, R, S, T, and U are seated and all of them are facing south. In row-2 A, B, C, D, E and F are seated and all facing North. Therefore in the given seating arrangement each member seated in a row faces another member of the outer row.

S sits third to right of Q, either S or Q sits an extreme end of line. The one who faces Q sits second to right of E. Two people sits between B and F. Neither B nor F sits at an extreme end of the line. The immediate neighbour of B faces the person who sits third to left of P, R and T are immediate neighbours of the each other. C sits second to the left of A. T does not face the immediate neighbour of D.

141

Who amongst the following faces S?

- a) SD
 b) QA
 c) UF
 d) QE
 e) PD

142

How many persons are seated between U and R?

- a) A
 b) B
 c) C
 d) D
 e) F

143

P is related to A in the same way as S is related to B based on the given arrangement. To which of the following is T related to, following the same pattern?

- a) One
 b) Two
 c) Three
 d) Four
 e) none

144

Which of the following is true regarding T?

- a) C
 b) D
 c) E
 d) F
 e) Cannot be Det

145

Four of the following five are alike in a certain way based on the given arrangement & so form a group which is the one that does not being not being to that group?

- a) AT
 b) BT
 c) FP
 d) BT
 e) EQ

146

Who is sitting diagonally opposite to Q?

- a) A
 b) C
 c) F
 d) E
 e) B

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147

Who is opposite and facing E?

- a) P
- b) U
- c) T
- d) R
- e) Q

148

Who is diagonally opposite F?

- a) P
- b) U
- c) T
- d) R
- e) Q

149 – 154. In the question, there is a sentence. Sentence contains words/phrases that are marked (A), (B) to (E). Some of the words are intentionally mis spelled. Find the word(s) / phrases which are wrong and than from the options given choose the right sequence.

Since 1952 the Guardian has published (A) / an annual anthology of the best (B) / of the writings and cartoons that appeared (C) / in the Guardian known as The Bedside Guardian Year (D) / No Error (E)

- a) (A)
- b) (B)
- c) (C)
- d) (D)
- e) (E)

150

Equity markets in Europe adopt a calm mood (A) / Friday, helped by gains in Asian markets overnight. (B) / Ongoing geopolitical tensions in the Ukraine together with (C) / Fed chair Yellen's remarks regarding monetary tightening keep us anxious in (D) / general but as we head to the end of the week, traders are demonstrating a level of comfort. (E)

- a) (A)
- b) (B)
- c) (C)
- d) (D)
- e) (E)

151

Indian stock markets have (A) / been hit after the US slapped (B) / fresh sanctions on Indian (C) / officials and Bank of India. (D) / No Error (E) /

- a) (A)
- b) (B)
- c) (C)
- d) (D)
- e) (E)

152

This week an article was published detailing eight (A) / journalists' experiences of everyday sexism went viral, (B) / with many commentators expressing their shock at the level of (C) / misogyny and discrimination women still face in 2014. (D) / Unfortunately this phenomenon is in no way limited to journalism. (E) /

- a) (A)
- b) (B)
- c) (C)
- d) (D)
- e) (E)

153

On a morning tube full of commuters, (A) / I am the only person in wellies. (B) / At London Bridge, I break away from the suits filing towards the City, (C) / and make for the river. Moments later I'm down on my knees, (D) / sifting through rusty metal and rocks in the mud. Office life feels very far away. (E) /

- a) (A)
- b) (B)
- c) (C)
- d) (D)
- e) (E)

154 – 159. Read each sentence to find out whether there is any grammatical/idiomatic/spelling mistake/error in it. The error, if

any, will be in one part of the sentence. Mark the number of that part with error as your answer. If there is no error, mark (5).

154

I have criticize (1)/ the remarkable book (2)/ because I benefited (3)/ from reading it. (4)/ No error (5)

- a) 1
- b) 2
- c) 3
- d) 4
- e) 5

155

When he had been (1)/ walked along the road (2)/ a wild and ferocious dog (3)/ hit him hard and knocked him down (4)/ No error (5).

- a) 1
- b) 2
- c) 3
- d) 4
- e) 5

156

I am grateful to you (1)/ and all your friends (2)/ for showing sympathy (3)/ and kindness with me (4)/ No error (5).

- a) 1
- b) 2
- c) 3
- d) 4
- e) 5

157

It was clear from the way (1)/ they were behaving (2)/ that they had been (3)/ lost their senses (4)/ No error (5)

- a) 1
- b) 2
- c) 3
- d) 4
- e) 5

158

As Arundhati Roy (1)/ in her foreword write (2)/ John offers (3)/un-told stories of people. (4) No error (5)

- a) 1
- b) 2
- c) 3
- d) 4
- e) 5

159

Amphibian populations are declining in numbers worldwide. Not coincidentally, the earth's ozone layer has been continuously depleted throughout the last 50 years. Atmospheric ozone blocks UV-B, a type of ultraviolet radiation that is continuously produced by the sun, and which can damage genes. Because amphibians lack hair, hide, or feathers to shield them, they are particularly vulnerable to UV-B radiation. In addition, their gelatinous eggs lack the protection of leathery or hard shells. Thus, the primary cause of the declining amphibian population is the depletion of the ozone layer.

Each of the following, if true, would strengthen / weaken the argument?

(A) Atmospheric ozone has been significantly depleted above all the areas of the world in which amphibian populations are declining.

(B) The natural habitat of amphibians has not become smaller over the past century.

- a) A will strengthen the Argument, B will not strengthen or weaken
- b) A will Weaken the Argument & B will not strengthen or weaken
- c) B will Strengthen the Argument & A will not strengthen or weaken
- d) B will Weaken the Argument & A will not strengthen or weaken
- e) A & B both will Strengthen the argument

160

Division manager: I want to replace the Microton computers in my division with Vitech computers.

General manager: Why?

Division manager: It costs 28 percent less to train new staff on the Vitech.

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General manager: But that is not a good enough reason. We can simply hire only people who already know how to use the Microton computer.

Which of the following, if true, most seriously undermines / strengthens the general manager's objection to the replacement of Microton computers with Vitechs?

(A) Currently all employees in the company are required to attend workshops on how to use Microton computers in new applications.

(B) Experienced users of Microton computers command much higher salaries than do prospective employees who have no experience in the use of computers.

- a) A will strengthen the Argument, B will not strengthen or weaken
- b) A will Weaken the Argument & B will not strengthen or weaken
- c) B will Strengthen the Argument & A will not strengthen or weaken
- d) B will Weaken the Argument & A will not strengthen or weaken
- e) A & B both will Strengthen the argument

161

Since the deregulation of airlines, delays at the nation's increasingly busy airports have increased by 25 percent. To combat this problem, more of the takeoff and landing slots at the busiest airports must be allocated to commercial airlines.

Which of the following, if true, casts the most doubt on the effectiveness of the solution proposed above?

(A) The major causes of delays at the nation's busiest airports are bad weather and overtaxed air traffic control equipment.

(B) Since airline deregulation began, the number of airplanes in operation has increased by 25 percent.

- a) A will strengthen the Argument, B will not strengthen or weaken
- b) A will Weaken the Argument & B will not strengthen or weaken
- c) B will Strengthen the Argument & A will not strengthen or weaken
- d) B will Weaken the Argument & A will not strengthen or weaken
- e) A & B both will Strengthen the argument

162

There is one sentence in each of the following paragraphs that does not contribute to the main idea. It does not belong in the paragraph. Mark the sentence that should be removed from the paragraph.

A. Later in the dusky streets I walked among the Navajo camps, past the doorways of the town, from which came the good smells of cooking, the festive sounds of music, laughter, and talk.

B. The campfires rippled in the crisp wind that arose with evening and set a soft yellow glow on the ground, low on the adobe walls.

C. A natural building material used for several thousand years, adobe is composed of sand and straw, which is shaped into bricks on wooden frames and dried in the sun.

D. Mutton sizzled and smoked above the fires; fat dripped into the flames; there were great black pots of strong coffee and buckets full of fried bread; dogs crouched on the rim of the light, the many circles of light; and old men sat hunched in their blankets on the ground, in the cold shadows, smoking.

E. Long into the night the fires cast a glare over the town, and I could hear the singing, until it seemed that one by one the voices fell away, and one remained, and then there was none. On the very edge of sleep I heard coyotes in the hills.

163

There is one sentence in each of the following paragraphs that does not contribute to the main idea. It does not belong in the paragraph. Mark the sentence that should be removed from the paragraph.

A. The activity in the pueblo reached a peak on the day before the Feast of San Diego, November twelfth.

B. It was on that day, an especially brilliant day in which the winter held off and the sun shone like a flare, that Jemez became one of the fabulous cities of the world.

C. In the preceding days the women had plastered the houses, many of them, and they were clean and beautiful like bone in the high light; the strings of chilies at the vigas had darkened a little and taken on a deeper, softer sheen; ears of colored corn were strung at the doors, and fresh cedar boughs were laid about, setting a whole, wild fragrance on the air.

D. The women were baking bread in the outdoor ovens. Here and there men and women were at the woodpiles, chopping, taking up loads of firewood for their kitchens, for the coming feast.

E. Year round, the artisans of Jemez, known internationally for their crafts, would create beautiful basketry, embroidery, woven cloths, exquisite stone sculpture, moccasins, and jewelry.

164

There is one sentence in each of the following paragraphs that does not contribute to the main idea. It does not belong in the paragraph. Mark the sentence that should be removed from the paragraph. First and the last sentence are fixed and need not change.

My hometown is famous for several amazing natural features.

A. First, it is noted for the Wheaton River, which is very wide and beautiful

B. In autumn the leaves of these trees fall and cover the riverbanks like golden snow

C. Second, on the other side of the town is Wheaton Hill, which is unusual because it is very steep

D. The third amazing feature is the Big Old Tree, This tree stands two hundred feet tall and is probably about six hundred years old

E. Finally, the mayor's house is beauty in itself, classical mix of glass and concrete walls

These natural landmarks are truly amazing and make my hometown a famous place.

165

There is one sentence in each of the following paragraphs that does not contribute to the main idea. It does not belong in the paragraph. Mark the sentence that should be removed from the paragraph.

A. Each of the U.S. manned space exploration projects had specific major goals. For example, the Mercury project was designed to test whether or not human beings could survive and function in outer space.

B. In addition, the Mercury project tested rockets with the new Mercury space capsule, which could hold one person.

C. As another example, the Gemini project was intended to find out whether two people could work in the weightless environment of space. One way of doing this was by having Gemini astronauts take spacewalks. That is, they floated outside their spacecraft in a spacesuit, connected to it by a tether.

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D. Another example of astronaut's courage was shown in the movie gravity which revolves around the movement in outer space.

E. Finally, the Apollo project, with three astronauts, had the goal of testing spacecraft and skills so that people could actually fly to the Moon and land on it. Other goals included performing scientific experiments on the lunar surface and collecting rocks for study on Earth.

166

There is one sentence in each of the following paragraphs that does not contribute to the main idea. It does not belong in the paragraph. Mark the sentence that should be removed from the paragraph.

A. Each of the Russian manned space exploration projects had specific major goals. For example, the Vostok project was designed to test whether or not human beings could survive and function in outer space.

B. For another example, the Voshkhod project was intended to find out whether people could work in the weightless environment of space.

C. One Voshkhod cosmonaut experimented with weightlessness by taking a spacewalk. The cosmonaut to do this was Alexei Leonov.

D. Several weeks later, Leonov's spacewalk was followed by that of U.S. astronaut Ed White.

E. Finally, the Soyuz project, with three cosmonauts, had goals of testing spacecraft and spaceflight skills so that people could fly long missions in Earth orbit.

167 – 172 Answer the following questions using data sufficiency

- a) statement 1 alone is sufficient, but statement 2 alone is not sufficient to answer the question
- b) statement 2 alone is sufficient, but statement 1 alone is not sufficient to answer the question
- c) both statements taken together are sufficient to answer the question, but neither statement alone is sufficient
- d) each statement alone is sufficient
- e) statements 1 and 2 together are not sufficient, and additional data is needed to answer the question

167

H, K, L, M, J, D, F, T and W are sitting around a circle facing the centre. Who is second to the right of D?

(A) L is second to the right of T and third to the left of W. F is to the immediate left of J.

(B) H is second to the left of T. J is fourth to the left of M who is not neighbour of L. D is not neighbour of W.

168

In a certain language, Is BOMBAY coded as CPNCBZ?

(A) MADRAS is coded as NBESBT

(B) DELHI is coded as FZAJU

169

Five experts on Nino-technology involved in an international Research Project hold a Quarterly Review Meeting in Singapore. There are certain limitations on their language skills. Expert R1 knows only Japanese and Hindi; R2 is good at Japanese and English; R3 is good at English and Hindi; Besides R5, How many of the experts can converse with R4 without an interpreter?

(A) R4 knows French and Japanese quite well, and R5, an Indian, knows Hindi, English, and French.

(B) R2 is not good in Hindi but good in English

170

In which direction was Udai facing?

(A) It was the morning time and Udai and Vishal were talking to each other face to face.

(B) Vishal's shadow was exactly to the left of Udai

171

Six friends decided to visit Goa and on a fine summer day, all of them, that is A, B, C, D & E are sitting in a straight line, on the beach, taking in the fabulous weather and atmosphere. Who is sitting in the middle of the bench?

(A). C does not sit near to A or E.

(B). A and E have three persons sitting between them

172 - 177

In the following the questions choose the word which best expresses the SIMILAR or OPPOSITE meaning of the given word.

172

BLUFF

- a) Cheat
- b) Clean
- c) Good
- d) Tease
- e) Wish

173

AFFLUENT

- a) Demi God
- b) Healthy
- c) Influential
- d) Destitute
- e) Eminent

174

RETRENCH

- a) Dig deep
- b) Reduce
- c) Depth
- d) Hide
- e) Energy

175

BENEVOLENT

- a) Destitute
- b) Calligraphy
- c) Rich
- d) Munificent
- e) Helpful

176

ENERVATE

- a) Capacious
- b) Articulate
- c) Retry
- d) Energy
- e) Debilitate

177

In a secret way of writing INDIA is written as JOEB, how would you SPACE in that language?

- a) BUTQE
- b) TQBDF
- c) UTQED
- d) SUTQD
- e) BATEB

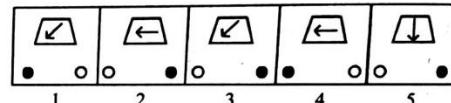
178

In a given code SISTER is coded as 535301, UNCLE as 84670 and BOY as 129. How is RUSTIC written in the code ?

- a) 185436
- b) 185338
- c) 185336
- d) 182336
- e) 185337

179

Following question, consists of unmarked figures followed by five figures marked 1, 2, 3, 4, and 5. Select the figure from the marked figures which will replace the question mark so that a series be established by the unmarked figures.



1 2 3 4 5

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a. 1 b. 2 c. 3 d. 4 e. 5

180

In the graduating class of a certain college, 48 percent of the students are male and 52 percent are female. In this class 40 percent of the male and 20 percent of the female students are 25 years old or older. Find the percentage of students (he or she) less than 25 years old?

- a) 30%
- b) 80%
- c) 60%
- d) 40%
- e) 70%

181 – 186. Read the following passage and answer the following question.

Time is one of the main problems of Western philosophy and literature. Ever since the thinkers of classical Greece tried to understand the swiftness of our seconds, minutes and hours – the impossibility of stepping into the same river twice – the problem of time has haunted our imagination. It is even more than a problem, it is a mystery.

What is time? It is a secret – lacking in substance and yet almighty. Those are the words of the German Nobel Laureate in Literature, Thomas Mann, in his great novel The Magic Mountain (1924). Mann was a very modern writer, and yet his definition of time was more or less the same as the one provided by the Roman Church Father Saint Augustine in his famous autobiography, Confessions, more than fifteen hundred years earlier. What, then, is time? I know well enough what it is, provided that nobody asks me; but if I am asked what it is and try to explain, I am baffled.

Nevertheless, throughout medieval and modern Western history time has generally been presented not as a circle but as a line or, more exactly, an irreversible process with a unique beginning and a unique end. It is probably Saint Augustine, more than anyone else, who is responsible for this enormously influential concept of time. It derives its origin from old Jewish tradition, and the early Christian philosophers had already applied it to their new religion: God had created the world out of nothing once and for all; history had culminated in the Incarnation of Jesus Christ and would quite soon reach its inexorable end with the Last Judgment.

In his main work, City of God, Saint Augustine argued strongly in favor of this linear concept of time, condemning ancient Greek cyclic time as a superstition. The Christian idea of time as an irrevocable process from Creation to Judgment has been surprisingly adaptable to different intellectual and artistic periods of European history. In its orthodox version, it has inspired some of the greatest works of pre-modern Western literature, such as the Christian epics of the medieval Italian poet Dante, The Divine Comedy, and of his English successor from the 17th century, John Milton, who wrote Paradise Lost.

Nevertheless, the very same idea could be updated by the philosophers of the Enlightenment in the 18th century, who created our modern, secularized version of time. From now on, time is generally conceived of as an endless process, without beginning and without end, a neutral course of events, theoretically released from its old connections with the planets and the seasons of the year, possible to cut up into an infinite number of temporal fractions. This scientific idea of time depends on the breakthrough of mechanical watches during the early modern period. Even more importantly: writers, philosophers and

scientists have long been able to reconcile it with another great modern idea, that of progress.

181

Which of the following is not true about definition of time mentioned in the passage?

- a) Saint Augustine - linear concept of time
- b) Ancient Greek - cyclic time
- c) Christian - idea of time as an irrevocable process
- d) Thomas Mann - lacking in substance and yet almighty
- e) All are correct.

182

What does author means by saying that medieval and modern Western history presented time as a line not circle?

- a) Clocks are always made in circular shape
- b) Time is process like a line with clear end and beginning
- c) A irreversible process which comes back
- d) Greek supported the idea of time being cyclic
- e) None of the above is true

183

Which of the following statements is true about time according to German Nobel Laureate in Literature, Thomas Mann, in his great novel The Magic Mountain (1924)?

- A. Time is surreptitious – lacking in substance and yet colossal
- B. His views about time is quite similar to Saint Augustine
- C. Time is secret which revolves around almighty but lacking substance

- a) A alone
- b) B alone
- c) C alone
- d) A & B both
- e) All of the above.

184

Find the odd man out with respect to their thoughts and definitions about time.

- a) Greek
- b) Christian
- c) Jewish
- d) Saint Augustine
- e) Thomas Mann

185

Which of the following statements is true about time according to German Nobel Laureate in Literature, Thomas Mann, in his great novel The Magic Mountain (1924)?

- A. Time is surreptitious – lacking in substance and yet colossal
- B. His views about time is quite similar to Saint Augustine
- C. Time is secret which revolves around almighty but lacking substance

- a) A alone
- b) B alone
- c) C alone
- d) A & B both
- e) All of the above.

186

In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

One of the most (1) aspects of the article, Pulling a village out of poverty , was the call for the integration of all the collected data. It is, to a degree, (2) unbelievable that we, the providers of some

of the (3) complex IT solutions to the developed world, are unable to create an accurate database and use it to deliver services to the people. One of the most critical aspects of (4) article, Pulling a village out of poverty, was the call for the integration of all the collected data. It is, to a degree, quite unbelievable that we, the providers of some of the most complex IT solutions to the developed world, (5) unable to create an accurate database and use it to deliver services to the people.

What will come in blank number 1

- a) simple
- b) decent
- c) long
- d) critical
- e) low

187

What will come in blank number 2

- a) Very
- b) a lot
- c) quite
- d) some
- e) mostly

188

What will come in blank number 3

- a) important
- b) very
- c) quite
- d) most
- e) roughly

189

What will come in blank number 4

- a) this
- b) the
- c) on
- d) their
- e) there

190

What will come in blank number 5

- a) is
- b) were
- c) are
- d) only
- e) still

191 – 196 In each of the given question, two sentences are given. These sentences are to be combined into a single sentence without changing their meaning. There probable starters of the combined sentences are given which are denoted by A, B and C. Any one or more or none of them may be correct. Find out the correct starter(s) and accordingly select your answer from the given five answer choices.

191

In the past 20 years or so, record numbers of legal immigrants. Some of the immigrants were convicted of the most minor of

crimes, have been deported. This is possible thanks in large part to the 1996 Immigration Act.

- (A) 1996 Immigration act helped deport many convicts...
- (B) In the past 20 years or so, thanks to 1996 Immigration Act...
- (C) Convicts with minor crimes....

- a) A alone
- b) B alone
- c) C alone
- d) Both A and B
- e) All of the above

192

He is very hardworking and has all the talent needed for an actor.

- He is still struggling to get a break.
- (A) Despite being talented and hardworking.....
 - (B) He is struggling because.....
 - (C) Although he has all....

- a) A alone
- b) B alone
- c) Both A and B
- d) Both A and C
- e) All of the above

193

Here's something for critics of globalisation to chew on. Enrolment in English-medium schools in India has gone up sharply in just two years. It was 4.3 per cent of total enrolment in 2003-04 and now its 6.3 per cent in 2005-06.

- (A) Enrolments in english medium....
- (B) Last two years...
- (C) Critics of globalisation....

- a) A alone
- b) B alone
- c) C alone
- d) Both A and B
- e) All of the above

194

So many people put in huge efforts to achieve success. They push their mind and body to staggering limits to achieve success.

- (A) So many people put in...
- (B) Pushing their mind....
- (C) To achieve success....

- a) A alone
- b) B alone
- c) C alone
- d) Both A and B
- e) All of the above

195

Tradition is accumulated past which people get attached to. People are not living the present. People have no hope for the future

- A) Tradition is accumulated past
- B) People who are not living
- C) People have not hope.....

- a) A alone

- b) B alone
- c) C alone
- d) Both A and B
- e) All of the above

- b) devastating
- c) good
- d) bland
- e) strong

196 – 200. In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

Left-wing extremism (1) a serious challenge to India's internal security and has a (2) effect on the lives of the poor. Instead of spending huge amounts of money without a direct (3) plan, a result-oriented and balanced approach directed towards the root cause is what we need. (4) the poor with better livelihood options will help empower them. The article shows that what we (5) are a few simple steps by a group of committed political parties and administrative officers.

196

What will come in blank number 1

- a) was
- b) could be
- c) poses
- d) would be
- e) will be

197

What will come in blank number 2

- a) important

198

What will come in blank number 3

- a) action
- b) solid
- c) important
- d) ongoing
- e) past

199

What will come in blank number 4

- a) For
- b) With
- c) Equipping
- d) On
- e) Without

200

What will come in blank number 5

- a) see
- b) need
- c) want
- d) can
- e) did

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Solutions

Your performance:

Attempts:	/200
Correct:	
Wrong:	
Marks:	

Score	Percentile
150 +	99.99%ile
140 +	99.9%ile
130 +	99.5%ile
120 +	99.0%ile
110 +	98%ile
100 +	95%ile
90 +	90%ile
80 +	85%ile
70 +	75%ile
60 +	65%ile

1 D If we compare figure 1 and 2. Circle is next to each other (ie right side top in fig 1 and left side top in fig 2). Similarly in 3 and 4 dark circle is next to each other. Similarly in 5 and 6 T should be next to each other. So answer have to be from 1, 2 and 4. we can eliminate 3 and 5. Now similarly if position of = in figure 1 and 2. = sign goes one step down (ie right side middle position in fig 1 and left side last position in fig 2). Similarly in 3 and 4 S does same pattern. Similarly in 5 and 6 Triangle should be same way. So answer have to be 4 as 1 and 2 will get eliminated.
D Shortcut: Use Cetking Pairing strategy. 5 questions in CET were based on pairing strategy.

2 B the figure rotates by 45° & 90° CW alternately. An arc is added alternately on CW & ACW side.

3 C Shortcut: It is clear that if the weight of the teacher is also 62 years, the average of the class including the teacher will remain 62 kgs. But the average is increased by 0.5 kgs upon adding the teacher. So it is clear that the weight of the teacher is more than 62 kgs. The average is increased by 0.5 kgs upon 37 members (remember it is not 36, but 37) which means the increase in the sum = 0.5 x 37 = 18.5 kgs. So the age of the teacher must be 62+18.5 = 80.5 kgs

4 D Shortcut/ tip: We can use Cetking's one man strategy and pairing strategy. Follow the position of S to eliminate few options. But using pairing strategy things will become simple. Figure one is repeated in 5. ie the pattern is alternate. So figure six will be same as 2. ie option 4.

5 D Time taken by the train = distance/speed = 450/3x or 150/x => ship=120/2x or 60/x => car = 60/x since the total time is 27/2 we can equate them. 150/x+60/x+60/x=27/2 => 270/x=27/2 ---> x = 20. hence speed of train (3x) = 60 m/hr

6 A A is bigger than B
Quantity A - Length of wire required to make a circle of radius 50 cm will be circumference of the circle ie $2 * \pi * 50 = 314$.
Quantity B - Length of wire required to make 4 rectangles each of length 14 cm and breadth 12 cm will be 4 times perimeter ie $4 * 2(L + B) = 8 * (14 + 12) = 208$.

Shortcut:

Dont need to calculate final value. 2 pie R we can take as $2 * 3 * 50 = 300$ approx. same for rectangle.

7 A Quantity A - Probability of picking up two red balls from a bag containing 6 Red, 4 Green and 2 Orange balls.
 $= 6/12 * 5 / 11 = 5/22$
Quantity B - Probability of picking up green red balls from a bag containing 6 Red, 4 Green and 2 Orange balls.
 $= 4/12 * 3/11 = 1/11$
Hence A is bigger.

Shortcut: 20 seconds.
Larger number of balls will have higher probability being picked.
As number of red balls are more the probability wil be higher.

8 B This question can be solved with calculations. Like $(j + k - 1 + j + 1 + 7) / 4$ on each side.
Shortcut:
Comparing both sides $j = 3.25$, $k = 4.25$
 $A = B$
 $j, k - 1, j + 1, \text{ and } 7 = 7, k, k, \text{ and } 3.25$
As both sides contains 4 terms we can just check the sum.
we can also ignore 7 from both sides.
 $3.25, 4.25-1, 3.25+1 = 4.25, 4.25, 3.25$
 $3.25, 3.25, 4.25 = 4.25, 4.25, 3.25$
We can visually see B is greater than A.

9 E The handy distance formula should pop into your head immediately: rate \times time = distance. Now, we have two of those variables for train x but only one variable for train y. So while we can figure out the time it took train x to get to Delhi, we're missing a key piece of information regarding train y's journey: namely, how far it traveled. The fact that y traveled faster than x might lead some to conclude that y got there sooner. However, y may have come from much farther away.
Relationship cannot be identified

10 B Using Equations:
If $r(s)$ is rate of loss for silver and $r(t)$ that of tin, T total weigh of tin and S total weigh of silver
We have $20=T+S$ (equation \$) and $2=r(t)*T+r(s)*S$
We also know $r(s)=0.375/5$ and $r(t)=1.375/10$
So $2 = r(t)*T+r(s)*S \Rightarrow 20 = 1.375*T+0.750*S$ (equation £) and we know (equation \$) $\Rightarrow 1+x = 20/S$
So (equation \$) $\Rightarrow x=1.375*x+0.750-1 \Rightarrow 0.375*x = 0.25 \Rightarrow x=2/3$

Shortcut: Mixtures cross method
10 kg tin loses 1.375 kg \Rightarrow 20 kg loses 2.75 kg
5 kg silver loses 0.375 kg \Rightarrow 20 kg loses 1.5 kg
Actual loss is 2 kg.

Apply the alligation rule=>
2.75 1.5
 /\
 2
 /\
0.5 0.75
1/2 3/4
 $(1/2)/(3/4) = 4/6 = 2/3$.

11 B Price at toll A = $1/6 (18 + 21 + 24 + 26 + 32) = 121 * 1/6 = 20.16$
Price at toll B = $1/6 (24 + 22 + 28 + 32 + 35) = 141 * 1/6 = 23.5$
Percentage increase = $(\text{Final Value} - \text{Initial Value}) / \text{Initial Value} * 100 = 23.5 - 20.2 / 20.2 = 3.3 / 20.2 = 16.33\%$

Shortcut / tip:

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Price at A = 121

Price at B = 141

We can find %inc from A to B directly no need to take average.

Find average using Cetking's gap method:

Gap / start = 20 / 121 = 1/6 = 16.67 (approx)

12 D Calculating toll prices for each slot:

Toll A $18 + 21 + 24 + 26 + 32 = 121$

Toll B $24 + 22 + 28 + 32 + 35 = 141$

Toll C $21 + 26 + 24 + 24 + 25 = 120$

Toll D $32 + 36 + 40 + 38 + 42 = 188$

Highest is Toll D.

Shortcut: (20 seconds)

This question can be solved visually from the graph.

Compare A and B in the most of the values in B are more than A.

So B is highest so far. Similarly compare others .

Compare B and C. B is higher as it contains some numbers in 30s.

Compare B & D. D contains all nos in 30s so higher than B.

Highest is Toll D.

13 C Toll A $26 + 32 = 58$

Toll C $24 + 25 = 49$

Ratio of Toll A / Toll C = $58/49 = 1.184$

Shortcut: Visually A and C are almost same. So ratio should be around 1. something. It cannot be 2.12, 0.65 or 3.12. Answer have to be between 1.18 or 1.25. If u don't hav time you can mark any one of them.

Now use Cetking's dot concept and get ur answer. $58/49 = 1.184$

14 C Total toll at - Toll D $32 + 36 + 40 + 38 + 42 = 188$. Average = $188 / 5 = 47$. This question was very easy.

15 A Take care of the words - Change in A with respect to D ie Decrease from D to A.

Price at toll A = 18

Price at toll D = 32

percentage change = $(\text{Final Value} - \text{Initial Value}) / \text{Initial Value} * 100$
 $100 = 32 - 18 / 32 = 14 / 32 = 7/16 = 43.75\% \text{ approx}$

Shortcut / tip:

Price at A = 18

Price at D = 32

We can find %inc from D to A directly no need to take average.

Find average using Cetking's gap method:

Gap / start = $14 / 32 = 7/16$ (Use dot concept) = 43.75% approx

16 D The first element from the top moves to third position. the second from top goes to top & gets inverted laterally.The third one goes to lowermost position & lowermost becomes the second.OR easily solve by G strategy.

17 A Shortcut: Use G Strategy here and pairing. Every year 2 questions are based on this diagram. See CET 2007 to 2012 paper Visual reasoning questions solved videos in ur shortcuts dashboard.

If we only look at the positions of each person using one man strategy will be enough to solve this.

Dark ball goes one position down, than 2 positions down than again 1 down and than 2 positions. So should be in the end. ie 5 is eliminated.

Similarly triangle should at position number 2. C figure should be at position 3. Option remains is 1.

18 D From additional information (4) we know that C is not in group Y and D is not in group Z. Given that C and D are in the same group, which means that both C and D are in group X. A, C, D, H and I are in group X.

Since, we need to find the friend who cannot be in the group that has exactly three friends; it means that group X will have only five friends.

From additional information (1) we know that B and J are in the same group. Also from additional information (2), D, E and F are in different groups.

So, it is clear that in a group which has exactly three friends; B and J will be accompanied by either E or F. So, G will be in the group that has exactly two friends along with either E or F.

19 B Given that F is in group X and G is not in group Y Since D, E and F are in different groups and D is not in group Z, therefore D is in group Y and E is in group Z. Since, C is not in group Y and C, I and H are in the same group, therefore C, I and H are either in group X or group Z. Also, G is either in group X or Z. Since each group has at least two friends and B and J are in the same group, therefore in group Y, there are exactly three friends namely B, J and D. Therefore, out of the pairs mentioned the following four pairs of friends cannot be in the same group; (J, F); (D, G); (B, E) and (D, I).

20 D Let us first form a group that has exactly six friends. Since, in one group there are six friends, therefore in each of the two other groups there are two friends. Also, we know that D, E and F are in different groups, B and J are in the same group and so are C, I and H. This means that in a group which has six friends, the following five friends namely B, J, H, I and C must be there. Since, C cannot be in group Y and in group X there is A along with one out of D, E and F, we can conclude that it is only group Z that can have six friends.

The sixth friend in group Z could be either E or F as D cannot be in group Z. So, neither A nor G nor D can be in the group that has six friends.

21 A Since there are exactly five friends in group Z, so it can be concluded that H, I and C are definitely in group Z. Since A is in group X, and D, E and F are in different groups, therefore B and J who are in the same group are in group Y. So, G is also in group Z. The fifth friend in group Z could be either E or F. The third friend in group Y and second friend in group X could be either D or E or F. Therefore, J is definitely in group Y.

22 E From additional information (4) we know that C is not in group Y and D is not in group Z. Given that F is in group X and G is not in group Y; Since D, E and F are in different groups none of the above pairs is possible.

23 E All these groups are not possible

24 D CY cannot be in the same group

25 C Area of small circle = πr^2

Area of Shaded region = $3\pi r^2$ (given 3 times)

Area of outer circle will become = $3\pi r^2 + \pi r^2 = 4\pi r^2$ I

Radius of the outer circle R, area = πR^2 ... II

From I and II.. $4\pi r^2 = \pi R^2 \Rightarrow 2r = R$.

Ratio of circumference of both circles will be $2\pi R / 2\pi r = 2\pi r / \pi r = 4\pi / 2\pi = 2$

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Shortcut:

Most of the CET questions quant based can be solved in 20 seconds:

Remember: If area is in ratio 4:1... the sides, diagonal, perimeter, or arc will be root of that ie 2:1

In this ques Ratios of the bigger circle to smaller circle is 4:1
(Bigger = shaded + small)

So ratio of perimeter/circumference will be 2:1

26 D Average time to solve this question 1 minute.

The legs of right isosceles triangles FAE and GCH equal to half of the side of the square, so to $4/2=2$, hence their combined area is $2*(1/2*2^2)=4$;

The same way the radii of arcs FG and EH equal to $4/2=2$. Since both arcs are 90 degrees, then their combined area is $2*90/360*\pi*(r^2)=2\pi$

The area of the square is $4^2=16$, thus the area of the shaded region is $16-(4+2\pi)=2(6-\pi)$

Shortcut / tip:

Time to solve this question 45 seconds

Area of the square = 16

Shaded portion = Square - 2 * rt angle triangle - 2 * quarter circles
One right angle triangle is $1/8$ of square = 2 [Cutting square into small parts.. see shortcut workshop on Visual Geometry (area of triangles)]

Quarter circle area = $1/4$ of circle = $1/4 \pi r^2 = 1/4 \pi * 4 = \pi$
[radius = $1/2$ of side of square = $1/2 * 4 = 2$]

Shaded portion = Square - 2 * rt angle triangle - 2 * quarter circles
= $16 - 2*2 - 2*\pi = 12 - 2*\pi = 2(6 - \pi)$

27 A (A) introducing additional evidence that undermines an assumption made by the representative

Correct: Assumption made by GR is the growth of population decides the probability of survival. This assumption is challenged and undermined by Environmentalist.

(B) challenging the representative's definition of a critical breeding number

Out of scope.

(C) demonstrating that the critical breeding number of the two wolf populations differs significantly

Critical breeding number is never compared for two breeds.
Irrelevant.

(D) implying that the two populations of wolves could be combined in order to preserve the species

Out of scope.

(E) suggesting that the Montana wolf population grew at a faster rate than stated in the representative's argument

Never done this. Irrelevant.

28 C New element is coming at right side end and than left side end alternately. Therefore something new should be coming at right end ie only 2 and 3 possible where Circle is coming as new symbol.

Secondly element which is coming new will come one step inside. In figure 2 circular lollipop is new element and it comes one step

inside. Similarly in figure 5 - T is new and next figure it will move to one step inside it option 3.

29 E Use Cetking's one man strategy

Follow T. Its turning 45 deg than 90 deg 45 than 90 ACW. Ie answer is only 1 and 5. now middle figure turns upside down in 1 and 2. similarly in 5 and 6 trapezium should turn upside down. Ie only 5.

30 E This was actual CET passage last year – level of passage was easy.

All of the above are mentioned in the passage as reason for slow growth.

A is given in paragraph two India's economy has been hurt by a range of factors in recent months, including a slowdown in key sectors such as mining and manufacturing

B&C are given in paragraph one weighed down by various factors, such as high inflation, a weak currency and a drop in foreign investment

Hence, A B C are can reasons mentioned.

Shortcut / Tip: Use Cetking G Strategy for RC given in your dashboard shortcut videos.

31 A This was easy question – Last line of para 1 the previous quarter's rate of 4.4% was the lowest for four years. Lowest growth rate is 4.4%

Shortcut / Tip: Use Cetking G Strategy for RC given in your dashboard > shortcut videos.

32 D There is rapid growth in developed markets, such as the US – NOT TRUE only recovery is mentioned

Slower growth is the only reason for making India a less attractive option for foreign investors – NOT TRUE Slower growth is one of the reason not only one.

Speculation that the US may not scale back its key economic stimulus measure – NOT TRUE – US may scale back is mention.. not may not.

US may scale back its key economic stimulus measure will affect all emerging markets – TRUE yes this is mentioned in paragraph 2 that emerging markets will be affected.

Russia's currency, dipped nearly 25% against the US dollar – NOT TRUE nothing is mentioned about Russia.

Shortcut / Tip: Use Cetking G Strategy for RC given in your dashboard shortcut videos.

33 B According to the passage 1 This is the fourth quarter in a row that India's annual growth rate has been below the 5% mark each quarter is of 3 months so four quarters means one year. So India's growth rate is below 5% for last one year can be inferred from the passage.

Other options:

India was earlier Second largest economy but after slowdown is now ranked third.. nowhere its mentioned so out of scope.

India's growth rate is below 5% for last one year.. Yes can be inferred.

Rupee will appreciate from next quarter.... Recovery is not mentioned in the passage

Economic advisory council intentionally lowered the growth outlook – not mentioned

Economy in developed countries is now booming - recovery in developed markets is mentioned not booming. Only B can be inferred.

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Shortcut / Tip: Use Cetking G Strategy for RC given in your dashboard > shortcut videos.

34 D Only A and B are mentioned in the last paragraph as reasons has made India less attractive for foreign investors:

(A) Speculation that the US may scale back its key economic stimulus measure

Paragraph 2 talks about Speculation that the US may scale back its key economic stimulus measure has seen investors pull money out of emerging markets, such as India.

(B) Recovery in developed markets

Paragraph 2 talks about Slowing growth, coupled with a recovery in developed markets, such as the US, has made India a less attractive option for foreign investors.

(C) India's currency dipping nearly 25% against the US dollar

This has affected India's currency, which dipped nearly 25% is not the reason but the effect.

Shortcut / Tip: Use Cetking G Strategy for RC given in your dashboard > shortcut videos.

35 A It is given that : % Profit = (Income - Expenditure) / Expenditure * 100
 $\Rightarrow \% \text{ Profit} / 100 = (\text{Income} / \text{Expenditure}) - 1$
 $\Rightarrow \text{Income} / \text{Expenditure} = (\% \text{ Profit} / 100) + 1$.

From this it is clear that the ratio of income to expenditure is minimum for the year in which the % Profit has the minimum value.

Shortcut / Tip (20 seconds)

Income = Profit% * Expenditure

$\Rightarrow \text{Income} / \text{Expenditure} = \text{Profit\%}$

Income to expenditure is minimum for the year in which the % Profit has the minimum value.

36 A ratio of percentage profit for each year needs to be calculated:
 $2013 = (30 - 20) / 20 * 100 = 10 / 20 * 100 = 50\%$
 $2014 = (35 - 30) / 30 * 100 = 5 / 30 * 100 = 1/6 = 16.67\%$
 $2015 = (40 - 35) / 35 * 100 = 5 / 35 * 100 = 100/7 = 14.28\%$
 $2016 = (50 - 40) / 40 * 100 = 10 / 40 * 100 = 100/4 = 25\%$

Hence highest % inc is for 2013 with respect to 2012.

Shortcut: Directly find the % by doing Final/Initial value

$2013 = (30 / 20) = 3/2 = 1.5$

$2014 = (35 / 30) = 7/6 = 1.16$

$2015 = (40 / 35) = 8/7 = 1.14$

$2016 = (50 / 40) = 5/4 = 1.25$

As highest value is 1.5, 2013 is highest.

37 B Shortcut:

Let expenditure of 2016 be x, then 2017 exp will be 1.25x

Income = %profit * Expenditure

Income in 2016 = 1.5 * x

Income in 2017 = 1.6 * 1.25x = 2x

Therefore % gain from 1.5x to 2x is

$0.5x / 2x = 1/4 = 25\%$

38 C Shortcut:

Income = Profit% X Expenditure

$I = 1.4 * 30000 = 42000$

39 D Let the expenditure in 2012, 2016 = x.

Also, let the incomes in 2012 and 2016 be I1 and I2 respectively.

Then, for the years we have:

$$20 = (I1 - x) / x * 100 \Rightarrow 20/100 = I1/x - 1 \Rightarrow I1 = 120x \dots (i)$$

$$50 = (I2 - x) / x * 100 \Rightarrow 50/100 = I2/x - 1 \Rightarrow I2 = 150x \dots (ii)$$

From (i) and (ii), we get:

$$I1 / I2 = (120x / 100) / (150x / 100) = 120 / 150 \Rightarrow 0.80 \Rightarrow 8 : 10$$

Shortcut:

Income = Profit% * Expenditure

Therefore, $I1 = p1 * e1$

20% profit% means Expenditure* 1.2

$$I1 = 1.2 * e$$

$$I2 = 1.5 * e$$

$$I1 / I2 = 1.2 / 1.5 = 4/5$$

See shortcut video on formula based DI in our dashboard.

40 D Use Cetking's pairing strategy

Similar figure appear in every third step. When it reappear it gets inverted. The lower right or lower left element goes to centre and new element appears in opposite side of lower left or lower right.

41 B This is the train problem where element move or increase like a train. 3 questions in CET are from this area. Use one man strategy to solve this . always look at new element's position to solve this question quickly.

New element appears at left side bottom position. And moves in same fixed pattern $7 > 5 > 8 > 9 > 6 > 3$. Hence right answer is position 2.

42 B Only possible combos are:

$$2^8 = 256$$

$$4^4 = 256$$

$$256^1 = 256$$

P + Q only option matches is $4^4 = 4+4 / 2 = 4$

43 E The trains originating from Daund and Egmore terminate at different stations, and it is also known that the only train via Varanasi originates at Egmore. It is also known that all the trains via Lucknow or Varanasi terminate at the Hazrat Nizamuddin station. So, the train originating from Egmore, runs via Varanasi and terminates at Hazrat Nizamuddin. Also, the train from Daund terminates at the New Delhi station.

The number of trains terminating at the New Delhi station is more than that terminating at the Hazrat Nizamuddin, a maximum of three trains can terminate at the Hazrat Nizamuddin station. So, the trains originating from Agra and Fatehpur should run via Kanpur and terminate at New Delhi station, as the number of trains via Kanpur is double of that via Lucknow.

It is given that the train originating from Chambal terminates at Hazarat Nizamuddin. If the train originating from Chambal runs via Kanpur, then the trains originating from Bandra and Gandhinagar both will run via Lucknow and hence terminate at Hazarat Nizamuddin, which is impossible. Hence, this train must run via Lucknow. The exact situation can be illustrated in the table shown below.

Originating - Intermediate - Terminatin

Agra - Kanpur - New Delhi

Bandra - Lucknow / Kanpur - Hazrat Nizamuddin/New Delhi

Chambal - Lucknow - Hazrat Nizamuddin

Daund - Kanpur - New Delhi

Egmore - Varanasi - Hazrat Nizamuddin

Fatehpur - Kanpur - New Delhi

Gandhinagar - Lucknow / Kanpur - Hazrat Nizamuddin/New Delhi

Since, we don't have information about Bandra and Gandhinagar, we cannot determine the trains which terminated at Hazrat Nizamuddin station.

44 C The trains originating from Daund and Egmore terminate at different stations, and it is also known that the only train via Varanasi originates at Egmore. It is also known that all the trains via Lucknow or Varanasi terminate at the Hazrat Nizamuddin station. So, the train originating from Egmore, runs via Varanasi and terminates at Hazrat Nizamuddin. Also, the train from Daund terminates at the New Delhi station.

The number of trains terminating at the New Delhi station is more than that terminating at the Hazrat Nizamuddin, a maximum of three trains can terminate at the Hazrat Nizamuddin station. So, the trains originating from Agra and Fatehpur should run via Kanpur and terminate at New Delhi station, as the number of trains via Kanpur is double of that via Lucknow.

It is given that the train originating from Chambal terminates at Hazarat Nizamuddin. If the train originating from Chambal runs via Kanpur, then the trains orginating from Bandra and Gandhinagar both will run via Lucknow and hence terminate at Hazarat Nizamuddin, which is impossible. Hence, this train must run via Lucknow. The exact situation can be illustrated in the table shown below.

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Egmore - Varanasi - Hazrat Nizamuddin
Fatehpur - Kanpur - New Delhi
Gandhinagar - Lucknow /Kanpur - Hazrat Nizamuddin/New Delhi

If the train originating from Gandhinagar runs via Lucknow, it should terminate at Hazrat Nizamuddin. So, the train originating from Bandra should terminate at the New Delhi station, as 3 trains are already terminating at Hazarat Nizamuddin. So, either statement (1) or (2) is correct

45 E The trains originating from Daund and Egmore terminate at different stations, and it is also known that the only train via Varanasi originates at Egmore. It is also known that all the trains via Lucknow or Varanasi terminate at the Hazrat Nizamuddin station. So, the train originating from Egmore, runs via Varanasi and terminates at Hazrat Nizamuddin. Also, the train from Daund terminates at the New Delhi station.

The number of trains terminating at the New Delhi station is more than that terminating at the Hazrat Nizamuddin, a maximum of three trains can terminate at the Hazrat Nizamuddin station. So, the trains originating from Agra and Fatehpur should run via Kanpur and terminate at New Delhi station, as the number of trains via Kanpur is double of that via Lucknow.

It is given that the train originating from Chambal terminates at Hazarat Nizamuddin. If the train originating from Chambal runs via Kanpur, then the trains orginating from Bandra and Gandhinagar both will run via Lucknow and hence terminate at Hazarat Nizamuddin, which is impossible. Hence, this train must run via Lucknow. The exact situation can be illustrated in the table shown below.

Originating - Intermediate - Terminatin
Agra - Kanpur - New Delhi

Bandra - Lucknow / Kanpur - Hazrat Nizamuddin/New Delhi

Chambal - Lucknow - Hazrat Nizamuddin

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Egmore - Varanasi - Hazrat Nizamuddin

Fatehpur - Kanpur - New Delhi

Gandhinagar - Lucknow /Kanpur - Hazrat Nizamuddin/New Delhi

Here, 3 trains will terminate at HN and 2 trains each at ND and SDA. The train originating from Bandra terminates at the New Delhi station, it must run via Kanpur and the train from Gandhinagar must run via Lucknow and terminate at the Hazrat Nizamuddin station.

Statement (1) is definitely false.

Statement (2) may or may not be false.

Statement (3) is definitely false as the train originating from Agra runs via Kanpur.

46 B Correct pairing is: Agra - Kanpur - New Delhi.

The trains originating from Daund and Egmore terminate at different stations, and it is also known that the only train via Varanasi originates at Egmore. It is also known that all the trains via Lucknow or Varanasi terminate at the Hazrat Nizamuddin station. So, the train originating from Egmore, runs via Varanasi and terminates at Hazrat Nizamuddin. Also, the train from Daund terminates at the New Delhi station.

The number of trains terminating at the New Delhi station is more than that terminating at the Hazrat Nizamuddin, a maximum of three trains can terminate at the Hazrat Nizamuddin station. So, the trains originating from Agra and Fatehpur should run via Kanpur and terminate at New Delhi station, as the number of trains via Kanpur is double of that via Lucknow.

It is given that the train originating from Chambal terminates at Hazarat Nizamuddin. If the train originating from Chambal runs via Kanpur, then the trains orginating from Bandra and Gandhinagar both will run via Lucknow and hence terminate at Hazarat Nizamuddin, which is impossible. Hence, this train must run via Lucknow. The exact situation can be illustrated in the table shown below.

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Egmore - Varanasi - Hazrat Nizamuddin
Fatehpur - Kanpur - New Delhi
Gandhinagar - Lucknow /Kanpur - Hazrat Nizamuddin/New Delhi

Here, 3 trains will terminate at HN and 2 trains each at ND and SDA. The train originating from Bandra terminates at the New Delhi station, it must run via Kanpur and the train from Gandhinagar must run via Lucknow and terminate at the Hazrat Nizamuddin station.

Statement (1) is definitely false.

Statement (2) may or may not be false.

Statement (3) is definitely false as the train originating from Agra runs via Kanpur.

47 B Correct pairing is: Fatehpur - Kanpur - New Delhi.

The trains originating from Daund and Egmore terminate at different stations, and it is also known that the only train via

Varanasi originates at Egmore. It is also known that all the trains via Lucknow or Varanasi terminate at the Hazrat Nizamuddin station. So, the train originating from Egmore, runs via Varanasi and terminates at Hazrat Nizamuddin. Also, the train from Daund terminates at the New Delhi station.

The number of trains terminating at the New Delhi station is more than that terminating at the Hazrat Nizamuddin, a maximum of three trains can terminate at the Hazrat Nizamuddin station. So, the trains originating from Agra and Fatehpur should run via Kanpur and terminate at New Delhi station, as the number of trains via Kanpur is double of that via Lucknow.

It is given that the train originating from Chambal terminates at Hazarat Nizamuddin. If the train originating from Chambal runs via Kanpur, then the trains originating from Bandra and Gandhinagar both will run via Lucknow and hence terminate at Hazarat Nizamuddin, which is impossible. Hence, this train must run via Lucknow. The exact situation can be illustrated in the table shown below.

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Daund - Kanpur - New Delhi
Egmore - Varanasi - Hazrat Nizamuddin
Fatehpur - Kanpur - New Delhi
Gandhinagar - Lucknow /Kanpur - Hazrat Nizamuddin/New Delhi

Here, 3 trains will terminate at HN and 2 trains each at ND and SDA. The train originating from Bandra terminates at the New Delhi station, it must run via Kanpur and the train from Gandhinagar must run via Lucknow and terminate at the Hazrat Nizamuddin station.

Statement (1) is definitely false.

Statement (2) may or may not be false.

Statement (3) is definitely false as the train originating from Agra runs via Kanpur.

48 C Looking at the table below.. it should be either 3 or 5 trains terminating at Delhi

The trains originating from Daund and Egmore terminate at different stations, and it is also known that the only train via Varanasi originates at Egmore. It is also known that all the trains via Lucknow or Varanasi terminate at the Hazrat Nizamuddin station. So, the train originating from Egmore, runs via Varanasi and terminates at Hazrat Nizamuddin. Also, the train from Daund terminates at the New Delhi station.

The number of trains terminating at the New Delhi station is more than that terminating at the Hazrat Nizamuddin, a maximum of three trains can terminate at the Hazrat Nizamuddin station. So, the trains originating from Agra and Fatehpur should run via Kanpur and terminate at New Delhi station, as the number of trains via Kanpur is double of that via Lucknow.

It is given that the train originating from Chambal terminates at Hazarat Nizamuddin. If the train originating from Chambal runs via Kanpur, then the trains originating from Bandra and Gandhinagar both will run via Lucknow and hence terminate at Hazarat Nizamuddin, which is impossible. Hence, this train must run via Lucknow. The exact situation can be illustrated in the table shown below.

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Fatehpur - Kanpur - New Delhi
Gandhinagar - Lucknow /Kanpur - Hazrat Nizamuddin/New Delhi

Here, 3 trains will terminate at HN and 2 trains each at ND and SDA. The train originating from Bandra terminates at the New Delhi station, it must run via Kanpur and the train from Gandhinagar must run via Lucknow and terminate at the Hazrat Nizamuddin station.

Statement (1) is definitely false.

Statement (2) may or may not be false.

Statement (3) is definitely false as the train originating from Agra runs via Kanpur.

49 C Correct pairing is: Chambal - Lucknow - Hazrat Nizamuddin

The trains originating from Daund and Egmore terminate at different stations, and it is also known that the only train via Varanasi originates at Egmore. It is also known that all the trains via Lucknow or Varanasi terminate at the Hazrat Nizamuddin station. So, the train originating from Egmore, runs via Varanasi and terminates at Hazrat Nizamuddin. Also, the train from Daund terminates at the New Delhi station.

The number of trains terminating at the New Delhi station is more than that terminating at the Hazrat Nizamuddin, a maximum of three trains can terminate at the Hazrat Nizamuddin station. So, the trains originating from Agra and Fatehpur should run via Kanpur and terminate at New Delhi station, as the number of trains via Kanpur is double of that via Lucknow.

It is given that the train originating from Chambal terminates at Hazarat Nizamuddin. If the train originating from Chambal runs via Kanpur, then the trains originating from Bandra and Gandhinagar both will run via Lucknow and hence terminate at Hazarat Nizamuddin, which is impossible. Hence, this train must run via Lucknow. The exact situation can be illustrated in the table shown below.

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Fatehpur - Kanpur - New Delhi
Gandhinagar - Lucknow /Kanpur - Hazrat Nizamuddin/New Delhi

Here, 3 trains will terminate at HN and 2 trains each at ND and SDA. The train originating from Bandra terminates at the New Delhi station, it must run via Kanpur and the train from Gandhinagar must run via Lucknow and terminate at the Hazrat Nizamuddin station.

Statement (1) is definitely false.

Statement (2) may or may not be false.

Statement (3) is definitely false as the train originating from Agra runs via Kanpur.

50 D Given:

(i) $3a+4b=20$ and (ii) $2a+7b=22$, where a and b are # of type A and type B machines respectively.

Multiply (i) by 2 and (ii) by 3 and subtract: $(6a+21b)-(6a+8b)=66-40 \rightarrow b=2 \rightarrow a=4 \rightarrow a+b=6$.

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Answer: D.

Shortcut: 30 seconds

you can notice that from (i) $3a+4b = 20$: 20 minus multiple of 4 to be a positive multiple of 3 b must be either 2 or 5 (which doesn't fit into the second equation) $\rightarrow b=2 \rightarrow a=4 \rightarrow a+b=6$.

51 B In this question, if you start from the beginning, firstly the difference is 31, then the difference is 17, then the difference is 8. So there is no logic. If you start backwards, you can see that firstly, 1 is added, then 2 is added, then 4 is added, then 8, 16 and 32 should have been added. So you have got the right clue. So $15 + 32$ the first number should be 47 and afterwards, the series becomes + 16, + 8, + 4 and so on.

52 D In this question, the logic involved is ' $2 + 1$ ' only. But the error lies where instead of $43 - 2 + 1 = 87$, 85 has been given. So 85 is the wrong number.

* Replacing the Wrong Number: Sometimes, the question is related to not only finding the wrong number, but also with finding the number which should replace the wrong number identified. You can see the following example.

53 E In this sequence, two consecutive series are going simultaneously relating to perfect cubes and perfect squares respectively. Firstly 1 cube is given, then 2 cube is given, then 3 cube should have been there which should be 27, but 27 is written at that place. And then there is the cube of 4, i.e. 64. And the series given is alternately square of 2, then square of 3 and then square of 4 and so on. You may note this that in order to increase the confusion, the wrong number is also a perfect square.

54 B In this question, it can be analyzed that the difference between the numbers is 3, 4, 5, 6 and 7. So you have to apply the same logic and start the series with 9. The first number after 9 would be $9 + 3 = 12$ (this would replace letter a), the second number would be $12 + 4 = 16$ (this would replace letter b) and the third number would be $16 + 5 = 21$ (this would replace the letter c). You need not to go further because the question is related to c only.

55 A In this question, the squares of the natural numbers are added. Firstly 1 is added, then 4, then 9 and so on. You have to apply the same logic and add 1, 4, 9 and 16 to get the value of d. After adding 1, you'll get 13 which is the value of a, then after adding 4 you'll get 17, which is the value of b, after an addition of 9 you'll get 26 which is the value of c. After this add 16 and get 42, which is the value of d.

56 D Next action by the companies should be to increase the awareness of the stem cell treatments

57 B If we know that the success rate of Stem cells treatment is very high but need more research in the field to call it a successful treatment remedy it will strengthen the claim by Venture capitalist

58 A We can find the code for ga and ni using statement no. 1 and 3; From 2 and 3 we can find that ni is 'school'. Therefore ga will be 'from'

59 B Statement 2 and 4 will give code for 'is the bus'. So left over will be code for 'late' ie 'fa'

60 A Statement 2 and 4 will give code for 'is the bus'. So left over will be code for 'late' ie 'fa' from statement 1 and 3 'ga ni' can be found and left will be 'mo' ie 'come'

From 1 2 3 we can find the code for 'ba' ie for so 'fa mo ba' will be 'late for come'

61 D Combining statements we can find the code for 'ru mo di'

62 C only one word is common between 1 2 3 statements ie school and will be coded as 'ni'

63 E Most expensive Car is mercedes.

This question was different yet easy. CET experimented with one DI set in every slot.

City = 11 lacs

Xcent is $4/5$ of city = $4/5 * 11 = 44/5$ (approx 9) (Tip: dont convert into decimal like 8.9 etc.. It will be difficult to solve further)

Mercedes is 3 times Xcent = $3 * 44/5 = 132/5$ (26 approx)

BMW is $5/7$ of Merc = $132/5 * 5/7 = 132/7$ (almost 19)

Audi is 20% more than BMW ie multiply by 1.2 or $6/5 = 132/7 * 6/5 = 792/35$ (22.5 approx)

Maruti is 50% less than Xcent ie multiply by 0.5 = $44/5 * 0.5 = 4.4$ lacs

Once we got all the values in fractions or decimal. remaining questions were easy to solve.

64 A Mercedes = $132/5$

Maruti = 4.4 lacs

Ratio = $132/5 / 4.4$ (little calculation intensive)

Thats why we told not to convert into decimal and keep calculations simple.

See this again:

Mercedes = $3 * 44/5$

Maruti = 4.4 lacs

Ratio = $3 * 44/5 / 4.4$ (44 and 4.4 will go directly)

= $3 * 10/5 = 6/1$

This question was different yet easy. CET experimented with one DI set in every slot.

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Once we got all the values in fractions or decimal. remaining questions were easy to solve.

65 C Average price:

$1/6 * (11.00 + 8.80 + 26.40 + 18.86 + 22.63 + 4.40) = 92.09 / 6 = 15.34$

Total 3 cars above 15.34 lacs.

City 11.00 No

Xcent 8.80 No

Mercedes 26.40 Yes

BMW 18.86 Yes

Audi 22.63 Yes

Maruti 4.40 No

This question was different yet easy. CET experimented with one DI set in every slot.

City = 11 lacs

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 Once we got all the values in fractions or decimal. remaining questions were easy to solve.

66 C Cost of BMW = 18.86
 Cost of Maruti = 4.4
 %age increase will be $(18.86 - 4.4) / 4.4 = 328\%$ (little calculations)

Shortcut:
 $\text{BMW} = 3 \times 44/7$
 $\text{MARUTI} = 4.4$

%age can also be found by doing (BMW/ Maruti) - 1
 $i.e 3 \times 44/7 / 4.4 = 3 \times 10/7 = 30/7$
 $30 * 1/7 = 30 * 14.28 = 430\% \text{ approx} - 1 \text{ or } 100\% = 330!$

This question was different yet easy. CET experimented with one DI set in every slot.
 City = 11 lacs
 Xcent is $4/5$ of city = $4/5 \times 11 = 44/5$ (approx 9) (Tip: dont convert into decimal like 8.9 etc.. It will be difficult to solve further)
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Once we got all the values in fractions or decimal. remaining questions were easy to solve.

67 C Second cheapest car is Xcent.

This question was different yet easy. CET experimented with one DI set in every slot.
 City = 11 lacs
 Xcent is $4/5$ of city = $4/5 \times 11 = 44/5$ (approx 9) (Tip: dont convert into decimal like 8.9 etc.. It will be difficult to solve further)
 Mercedes is 3 times Xcent = $3 \times 44/5 = 132/5$ (26 approx)
 BMW is $5/7$ of Merc = $132/5 \times 5/7 = 132/7$ (almost 19)
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Once we got all the values in fractions or decimal. remaining questions were easy to solve.

68 C From fig2 to fig1, the elements on RHS shifts one side CW, gets inverted vertically & rotates by 90° CW, while

the upper element gets inverted vertically & the element on LHS remains the same.

69 B GN, NR , AG- three combinations possible. Which have same gap as in real dictionary.

These type of questions are simple AMC for example contains a pair AC which is like same gap in dictionary ABC.

70 A Venture capital wants to create awareness of the stem cells treatment

71 D This is the train problem where element move or increase like a train. 3 questions in CET are from this area. Use one man strategy to solve this . always look at new element's position to solve this question quickly.

New element appears at the end and than in the front of the train alternately. Existing elements move one side and half a side CW alternately.

72 D Elements move one step ACW & one of the elements on ACW side get doubled.

73 D Normal method:

Speed of train A = 100 mph

Speed of train B = $x/(10 \text{ min}) = 6x \text{ mph}$ (converted min to hr)
 Total time taken by both is 2 hrs. Already accounted for is 1hr + $(1/6) \text{ hr}$

The remaining $(5/6)$ hrs is the time needed by both together to reach their respective destinations.

Time taken by train A to reach B + time taken by train B to reach NY = $5/6$

$$x/100 + 100/6x = 5/6$$

$3x^2 - 250x + 5000 = 0$ (Painful part of the question)

$$x = 50, 33.33$$

(1) Train B arrived in New York before Train A arrived in Boston.
 If $x = 50$, time taken by train A to reach B = $1/2$ hr, time taken by train B to reach NY = $1/3$ hr
 If $x = 33.33$, time taken by train A to reach B = $1/3$ hr, time taken by train B to reach NY = $1/2$ hr
 Since train B arrived first, x must be 50 and B must have arrived at 4:20. Sufficient.

(2) The distance between New York and Boston is greater than 140 miles.

x must be 50 to make total distance more than 140. Time taken by train B must be $1/3$ hr and it must have arrived at 4:20. Sufficient.

Shortcut / tip: This question was time consuming to solve it took me 2 minutes to solve the question. Ideal question to leave or do smart guess.

I guessed for a sec that A is very sufficient information. Since only two variables are unknown - distance covered by B before it intersects A and the speed of train B. Two variables and two equations will be fine.

But then I looked at B and suddenly the difficulty jumped up. A or D appear likely. I thought train B is super fast so increasing the distance will make even more likely that train B arrives before A. This is the same as stem 1)

hence I guessed D.

74 C 1) $x = 120$, Hence $4*x/15 = 4*120/15 = 32$
 2) $1/3*x = 120 \Rightarrow x = 120$, so $4*x/15 = 32$

75 A 1. $xy + xz$ is an even integer - SUFFICIENT

Given:

$$xy + z \text{ is odd ... (i)}$$

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$xy + xz$ is even ... (ii)

subtracting (ii) from (i)

we get $xz - z$, which should be odd (* since odd - even = odd)

=> $z(x-1)$ is odd

=> both z and $(x-1)$ is odd

=> since $(x-1)$ is odd, x must be even.

2. $y + xz$ is an odd integer -INSUFFICIENT

Given:

$xy + z$ is odd ... (i)

$y + xz$ is odd ... (ii)

subtracting (ii) from (i)

we get $xy + z - y - xz$

= $(x-1)(y-z)$, which should be even

=> either $(x-1)$ is even or $(y-z)$ is eveninsufficient to determine

Shortcut.. Assume x y z to be 1, 2, 3 depending on if they are odd or even. than solve quickly

76 E What is the area of rectangular region R?

Let the sides of the rectangle be x and y . Question: area= xy ?

(1) Each diagonal of R has length 5 --> as the diagonals in a rectangle are the hypotenuses for the sides then: $x^2+y^2=5^2$, but we can not get the value of xy from this info. Not sufficient.

(2) The perimeter of R is 14 --> $P=2(x+y)=14$ --> $x+y=7$. Again we can not get the value of xy from this info. Not sufficient.

(1)+(2) We have $x^2+y^2=25$ and $x+y=7$. Square the second expression: $x^2+2xy+y^2=49$, as $x^2+y^2=5^2$ then $25+2xy=49$ --> $xy=12$. Sufficient.

Shortcut: 20 seconds to solve

Each statement alone is not sufficient to solve this.

But once we combine. Diagonal is 5, sum of sides 7. only possible case is Pythagorean triplet (5,3,4) as pair. So answer both together. See Shortcut workshops on Visual Geometry in ur dashboard.

77 E Question stem says that 2/3 of 60 are pigs or cows.

That means 40 animals are pigs or cows.

So all we need to have sufficiency is either number of pigs or number of cows.

1) Farm has more than 2 cows for 1 pig (at least 26.6 animals of the 40 are cows).

This just tells us that the farm has at least 27 pigs and that the max number of cows is 13.

For example the farm could have 30 pigs and 10 cows.

Not a definitive number. Insufficient.

2) Farm has more than 12 pigs. Again not enough info. Insuff

1+2) Statements together tell us:

$12 < \text{number of pigs} \leq 13$

Which means number pigs = 13

Number of cows = 27.

78 A Lets assume the Principal Amount (initial amount invested) to be P
rate of interest to be R and time as T. We need to find R

Now After a time of 3years the principal P amounts to 300 and after a time of 8 years (question says after another 5years so 3+5) P becomes 400.

Formulating the above data

Amount (A1) at end of 3years

$$A1 = P(1 + 3R/100) = 300$$

$$\text{Amount (A2) at end of 8years. } A2 = P(1 + 8R/100) = 400$$

Dividing A2 by A1 we get

$$(1 + 8R/100)/(1 + 3R/100) = 4/3. \text{ after cross multiplication we are left with } 12R = 100 \text{ which gives } R = 8.33\%$$

Shortcut:

Gap of 5 yrs (another 5 years) will give interest of 100. So per year interest is 20/-

For 3 yrs total collection is 300 in this interest is 60/- (3 yrs interest at 20/-)

So Principal was 300 - 60 = 240. and Interest 20/- ie $1/12 = 8.33\%$

79 C Use Cetking's G strategy or one man strategy to solve this question.

Circles - light, dark, light, dark, light so next one should be dark. Ie option 4 is eliminated.

Plus become minus than -. Again pattern follows so last should be -. Ie option 2 is eliminated.

Now position of +,-,= moves CW with each side. Only option follows that is 3.

80 C Shortcut: Use pen strategy and one man strategy

The complete figure moves 45 deg than 90 deg ACW alternately. Last it should move 45 deg which is only in option 1, 3, 5.

Square - Square is at position 1 and 2 alternately. Which eliminates option 1. only 3 and 5 remains.

Position of Y we look at its at position no. 5, 3, 4 than repeat 5, 3 and 4. which is only at option no. 3.

81 A WWR -> $P(WWR) = 3/8 * 2/7 * 2/6 = 12/336$
 $WRR -> P(WRR) = 3/8 * 1/7 * 1/6 = 6/336$
 $RWR -> P(RWR) = 2/8 * 3/7 * 1/6 = 6/336$
 $BBR -> P(BBR) = 3/8 * 2/7 * 2/6 = 12/336$
 $BRR -> P(BRR) = 3/8 * 2/7 * 1/6 = 6/336$
 $RBR -> P(RBR) = 2/8 * 3/7 * 1/6 = 6/336$
 $WBR -> P(WBR) = 3/8 * 3/7 * 2/6 = 18/336$
 $BWR -> P(BWR) = 3/8 * 3/7 * 2/6 = 18/336$
So, $P(\text{Total}) = 84/336 = 1/4 = 0.25$

Shortcut: 10 seconds.

In problems such as these, the answer is just the probability based on the initial population... so $2/8$ and it would be the same answer regardless of the nth try, 1st, 5th, 8th...

82 C Figure rotates 45 deg and 90 deg ACW alternately and symbols move one side anti clockwise each time.
Shortcut: Use one man army and pen strategy.

83 C Every element moves three steps ahead & a new element steps inn at the fourth position.

84 A Statement B which begins with 'however' and has a negative tone--that many in India find themselves uncomfortable in accepting the Darwinists', requires a positive statement before it. C and E which talk positive about India being able to accommodate Darwin would logically precede B. Also CE is

a mandatory pair with E extending C and also getting into specifics about India. D is a conclusive statement which completes B. This gives us the correct sequence ACEBD.

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89 C Normal method:
Number of 3 digit even numbers >than 700 and <1000 = 149. We can use Arithmetic progression to find 149. How? 702 is the first even number and 998 is the last even number. The difference is 2 between the numbers. So, we have $702 + (n-1)2 = 998$ or $n=149$. Number of 3 digit even numbers that need to be eliminated = 41, How? 702, 704, 706, 708, 710 => 5 numbers x 3 (for 70x, 80x and 90x series)= 15. Also, 720, 730...790 - 8 numbers x 3 = 24. Also 800 and 900 - 2 numbers. So, $15 + 24 + 2 = 41$.
So net result is $149 - 41 = 108$. C is the answer.

90 D Most common wrong answer is 15 as students find the PO and mark answer but actual question is find PR. OPQ is a right angled triangle (tangent is always 90 degrees to the line from centre)

Therefor using pythagorus theorem

$$OP = \sqrt{PQ^2 + OQ^2} = \sqrt{(12^2 + 9^2)} = \sqrt{225} = 15$$

Hence PR = 15 - radius (9) = 6

Shortcut: (20 seconds)

Using Triplets concept (See shortcut video on Visual Geometry in ur dashboard)

9, 12, 15 always form triplets.

So third side will be 15. PR = 15 - 9 = 6.

91 B Area Shaded portion = Square area - area of arc OQT.

Side of square = double of radius (given OQ is mid point) = 18

So area of square = $18 * 18 = 324$

$$\text{Area of arc OQT} = \text{angle} / 360 * \pi (18)^2 \\ = 90/360 * \pi (18)^2 = 1/4 * 324 * \pi = 81\pi$$

So Area of shaded = $324 (1 - \pi/4)$

Shortcut: (30 - 40 sec)

Area Shaded portion = Square area - area of arc OQT.

$$\text{Shaded} = 18 * 18 - 1/4\pi * 18 * 18 = 324 - 1/4\pi * 324 = 324 (1 - \pi/4)$$

92 D Arrow on the square moves 90 and 45 degrees ACW respectively and T moves 90 and 45 degrees CW alternately and every time a hollow pin becomes solid and solid pin becomes hollow and shifts one side ACW.

Shortcut: use one man strategy or G strategy.

93 E From the diagram all statements are possible.

94 B From the diagram 1 is not always true but is a possibility. 2 is always true.

95 B According to the diagram only 2 follows nothing else

96 E According to the diagram all are possible

97 B According to the diagram 2 is a solution. 1 and 3 are mutually exclusive so combined will be a solution.

98 C According to the diagram both are true.

99 C According to the diagram both are true.

100 D Easy question based on movement. Use one man strategy. Each element is moving fixed position, $1 > 3 > 7 > 9 > 5 > 1$.

101 D G is sitting immediate right of H

102 C F is sitting 3rd to the right of A

103 B F will remain at the same position if counting from A.

104 B All of them are sitting next to each other except FH who are sitting diagonally opposite

105 B B is between F and C

106 A Two people between A and C... A H G C

107 E E is sitting immediate right of A

108 B The percentage rise/fall in production from the previous year for flavour Y during previous years are :

$$\text{In 1996} = [(60-55)/55*100] = 9.09\%$$

$$\text{In 1997} = [(60-50)/60*100] = 16.67\%$$

$$\text{In 1998} = [(55-50)/55*100] = 9.09\%$$

$$\text{In 1999} = [(55-50)/55*100] = 9.09\%$$

So maximum fall is in 1997

109 C Average annual productions over the given period for various flavours are :

$$\text{For X} = 1/6 * (50+40+55+45+60+50) = 50 \text{ lakh bottles}$$

$$\text{For Y} = 1/6 * (55+60+50+55+50+55) = 54.17 \text{ lakh bottles}$$

For Z = $1/6 * (45+50+60+60+45+40) = 50$ lakh bottles
So Maximum average is for Y

110 D Required Percentage will be
 $(60+60) / (50+40) * 100\% = 120/90 * 100\% = 133.33\%$

111 D Average production of flavour X in 1995, 1996 and 1998 is $[1/3 * (50+40+55)] = 145/3$ lakh bottles
Average production of flavour Y in 1998, 1999 and 2000 is $[13 * (55+50+55)] = 160/3$ lakh bottles
Difference = $160/3 - 145/3 = 15/3 = 5$
So it will be 5 lakh bottles, which is 5,00,000

112 D Percentage decline in the production of the flavour Z in 2000 as compared to production in 1998 will be
 $= [(60-40)/60] * 100\% = 33.33\%$
Which is approximately equal to 33%

Shortcut tip:
Use Cetking gap/start strategy for this question.
Gap = 20
Start = 60

%age will be $20/60 = 1/3 = 33.33\%$
113 D $5/3 - 3/5 = 16/15x$
Error% =
 $(16/15x * 3/5 * 100) = 64\%$

114 E Shortcut: Time to solve 20 seconds
Longer : Shorter leg : Hypo = $\sqrt{2} : 1 : \sqrt{3}$
details - hypotenuse will be = root of sum of square of sides
Hyp = $\sqrt{[(\sqrt{2})^2 + 1^2]} = \sqrt{3}$. therefore, shorter side : Hypo = $1:\sqrt{3}$

115 C Elements move in such a way that first figure become 5 again. Similarly 2 will become 6 again. There were 2 questions in CET which were like that last year.
Use one man and pairing strategy to solve this.

116 B Power cuts are happening even though enough funds are allocated so therefor There might be some fraudulent activies going on in the accounts of power companies with insufficient funds allocation into the right places. Is the right answer

117 C C is the niece of D means C is the daughter of the brother (say P) of D i.e. C - P / D

118 A Q is the maternal uncle of P means P is the son of the sister of Q i.e. P is the son of the husband (say B) of the sister (say R) of Q i.e. (P + B - R x Q)

119 C S is the aunt of T means S is the sister of the father (say M) of T i.e. S x M + T.

120 D M is the uncle of P means M is the brother of the father (say K) of the sister (say T) of P i.e. M + K / T * P.

121 C M is the maternal uncle of R means M is the brother of the mother (say K) of R i.e. M + K - R.

122 E The upper element interchanges place alternately with the lower left and lower right elements. The lower middle interchanges with element on the other end and its replaced by a new one. Shortcut: use one man strategy.

123 C Each element is moving 45 degrees ACW in each step. In one step, the first and third C rotate by 90 ACW and

in next step all arcs rotate 90 degree ACW. The process repeat itself.

124 B Shortcut: Using Cetking seats method:
G M 7 6 5 4 3 2 1. = $1 * 1 * 7! = 7!$ ways

125 A Numbering each of the element & tracking its position. OR Elements of upper row become lower & viceversa. Elements of first column become third, second becomes first & third becomes second.

126 E First of all the numbers and their preceding letters are arranged. The numbers are arranged in ascending order. Then, the words are arranged in alphabetical but in reverse order.

Input: any number less than 30 and more than 20 does not equal 40

Step I: than 20 any number less than 30 and more does not equal 40

Step II: than 20 than 30 any number less and more does not equal 40

Step III: than 20 than 30 equal 40 any number less and more does not

Step IV: than 20 than 30 equal 40 number any less and more does not

Step V: than 20 than 30 equal 40 number not any less and more does

Step VI: than 20 than 30 equal 40 number not more any less and does

Step VII: than 20 than 30 equal 40 number not more less any and does

Step VIII: than 20 than 30 equal 40 number not more less does any and Step VIII is the last Step

Solution - It is Step I

127 B First of all the numbers and their preceding letters are arranged. The numbers are arranged in ascending order. Then, the words are arranged in alphabetical but in reverse order.

Input: any number less than 30 and more than 20 does not equal 40

Step I: than 20 any number less than 30 and more does not equal 40

Step II: than 20 than 30 any number less and more does not equal 40

Step III: than 20 than 30 equal 40 any number less and more does not

Step V: than 20 than 30 equal 40 number not any less and more does

Step VI: than 20 than 30 equal 40 number not more any less and does

Step VII: than 20 than 30 equal 40 number not more less any and does

Step VIII: than 20 than 30 equal 40 number not more less does any and Step VIII is the last Step

Solution - Eight steps would be required to complete the arrangement.

128 E First of all the numbers and their preceding letters are arranged. The numbers are arranged in ascending order. Then, the words are arranged in alphabetical but in reverse order.

Input: any number less than 30 and more than 20 does not equal 40

Step I: than 20 any number less than 30 and more does not equal 40

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Step II: than 20 than 30 any number less and more does not equal 40
 Step III: than 20 than 30 equal 40 any number less and more does not
 Step IV: than 20 than 30 equal 40 any number less and more does not
 Step V: than 20 than 30 equal 40 any number not any less and more does
 Step VI: than 20 than 30 equal 40 number not more any less and does
 Step VII: than 20 than 30 equal 40 number not more less any and does
 Step VIII: than 20 than 30 equal 40 number not more less does any and Step VIII is the last Step
 Solution - Option (c) is step III.

129 C First of all the numbers and their preceding letters are arranged. The numbers are arranged in ascending order. Then, the words are arranged in alphabetical but in reverse order.
 Input: any number less than 30 and more than 20 does not equal 40
 Step I: than 20 any number less than 30 and more does not equal 40
 Step II: than 20 than 30 any number less and more does not equal 40
 Step III: than 20 than 30 equal 40 any number less and more does not
 Step IV: than 20 than 30 equal 40 any number less and more does not
 Step V: than 20 than 30 equal 40 any number not any less and more does
 Step VI: than 20 than 30 equal 40 number not more any less and does
 Step VII: than 20 than 30 equal 40 number not more less any and does
 Step VIII: than 20 than 30 equal 40 number not more less does any and Step VIII is the last Step

Solution - The word 'not' would be on 8th position from left in Step V.
 130 B First of all the numbers and their preceding letters are arranged. The numbers are arranged in ascending order. Then, the words are arranged in alphabetical but in reverse order.
 Input: any number less than 30 and more than 20 does not equal 40
 Step I: than 20 any number less than 30 and more does not equal 40
 Step II: than 20 than 30 any number less and more does not equal 40
 Step III: than 20 than 30 equal 40 any number less and more does not
 Step IV: than 20 than 30 equal 40 any number less and more does not
 Step V: than 20 than 30 equal 40 any number not any less and more does
 Step VI: than 20 than 30 equal 40 number not more any less and does
 Step VII: than 20 than 30 equal 40 number not more less any and does
 Step VIII: than 20 than 30 equal 40 number not more less does any and Step VIII is the last Step
 Solution - It is Step I

131 C The new letter sequence is ECNABRUTSID. clearly, S comes after T.

132 E The corner element moves one side CW & takes a new shape. Two elements from the extreme-left move one-step towards right. The right-most becomes left & a new element appears at the rightmost end.

133 B The lower right moves to the top-left, the top-left to the centre, centre to lower-left. The lower-left moves to top-right & rotates by 90° CW.

134 D In the given figure if we mark □ as 1, = as 2, + as 3, ↑ as 4, * as 5 & ○ as 6 ie 1-2-3-4-5-6..the arrangements become 6-3-1-5-2-4.

135 C All alphabets of the word get reverse. So REDFORT will be the meaning

136 A Shortcut:
 Combining all the symbols into one row will reduce the time to solve this question from 1 minute to 30 seconds.

Z < A > B = P ≥ T
 I. Follow II. Not follow

137 B Shortcut:
 Combining all the symbols into one row will reduce the time to solve this question from 1 minute to 30 seconds.

C < K ≤ T ≥ Y > V

I. Not follow II. Follow

138 C Shortcut:
 Combining all the symbols into one row will reduce the time to solve this question from 1 minute to 30 seconds.

B > R ≤ S ≤ T > P
 I. Not follow II. Not follow

139 A Shortcut:
 Combining all the symbols into one row will reduce the time to solve this question from 1 minute to 30 seconds.

N > V < R = D ≤ S
 I. follow II. Not follow

140 C Shortcut:
 Combining all the symbols into one row will reduce the time to solve this question from 1 minute to 30 seconds.

J < M ≤ K = P > C
 I. Not follow II. Not follow. But it is complementary pair.

141 A Arrangement will be:

P U S T R Q
 C F A E B D

142 B Arrangement will be:

P U S T R Q
 C F A E B D

143 B Arrangement will be:

P U S T R Q
 C F A E B D

144 C Arrangement will be:

P U S T R Q
 C F A E B D

145 E Arrangement will be:

P U S T R Q

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C F A E B D

146 B C is diagonally opposite Q

147 C T is opposite E

148 D D is diagonally opp of F

149 B This is easiest part of CET paper. Easy 5 marks. Instead of antholoby it should be anthology

Meaning:

An anthology is a collection of literary works chosen by the compiler. It may be a collection of poems, short stories, plays, songs, or excerpts.

Shortcut / Tip:

Identify the words which you feel might be wrong, Incase you are unable to find the right mis spelled word, go with ur gut feeling and select the option.

150 D This is easiest part of CET paper. Easy 5 marks. Instead of anixous it should be anxious

Meaning:

Feeling or showing worry, nervousness, or unease about something with an uncertain outcome.

she was extremely anxious about her exams

Synonyms: worried, concerned, apprehensive, fearful, uneasy, ill at ease, perturbed, troubled, disquieted, bothered, disturbed, distressed

Shortcut / Tip:

Identify the words which you feel might be wrong, Incase you are unable to find the right mis spelled word, go with ur gut feeling and select the option.

151 B This is easiest part of CET paper. Easy 5 marks. Instead of snapped it should be slapped

Meaning:

put or apply (something) somewhere quickly, carelessly, or forcefully. slap on a bit of make-up. synonyms: fling, throw, toss, sling, slam, bang; daub, plaster, spread, apply

Shortcut / Tip:

Identify the words which you feel might be wrong, Incase you are unable to find the right mis spelled word, go with ur gut feeling and select the option.

152 C This is easiest part of CET paper. Easy 5 marks. Instead of commentators it should be commenters

Meaning:

Commenter is a person who comments on websites or give comments on queries.

Shortcut / Tip:

Identify the words which you feel might be wrong, Incase you are unable to find the right mis spelled word, go with ur gut feeling and select the option.

153 A This is easiest part of CET paper. Easy 5 marks.

Instead of comutters it should be commuters

Meaning:

a person who travels some distance to work on a regular basis. a fault on the line caused widespread delays for commuters
synonyms: daily traveller, traveller, passenger;

Shortcut / Tip:

Identify the words which you feel might be wrong, Incase you are unable to find the right mis spelled word, go with ur gut feeling and select the option.

154 A The error lies in part (1) of the sentence. 'I have criticize' should be replaced with 'I did not criticize'. It will make the sentence meaningful.

155 B (2) The structure of Past Perfect Continuous is : Subject + had been + verb +ing

156 D (4) The preposition 'with' should be replaced by 'to'.

157 C (3) Past Perfect Tense will be used. The structure is : Subject + had + past participle

158 B (2) The word 'write' is in Present Indefinite Tense. It should be replaced with 'has written' as Present Perfect is used to express past action whose time is not given and not definite.

159 E Both the statements will strengthen the case

160 C B stands tall and clear. Unless I have missed something in the argument. The idiot, General Manager's argument is based on the reasoning that people with experience can be hired easily. C provides evidence against his reasoning and hence undermines his objection.

161 A option A.

The author assumes that a primary cause for the heightened delays is the lack of unoccupied landing and takeoff slots for commercial airlines. Thus, the author argues that the best method is to increase the number of slots. However, option A gives a different reason for the delays. If it is attributed to something other than the number of slots, increasing them would not necessarily help.

162 C The third sentence in the paragraph (A natural building material used for several thousand years, adobe . . .) is the odd one out: the information about adobe bricks is not directly relevant to the night scene described in the rest of the passage. To restore the unity of Momaday's paragraph, delete this sentence.

163 E The last sentence (Year round, the artisans of Jemez . . .) is our distracting addition to Momaday's passage. The added sentence upsets the unity of the paragraph by offering information that is not directly relevant to the main idea (as stated in the first sentence) or to any of the other sentences in the paragraph. Whereas Momaday focuses specifically on activities taking place the day before the Feast of San Diego, the intrusive sentence refers to work that's done year round.

Shortcut and tip:

By moving irrelevant information to a new paragraph--or by omitting that information altogether--we can improve the unity of our paragraphs when we come to revise them.

164 E Look at the words. Do you see how they help guide the reader? For example, consider the words, First, Second, and The third amazing feature. We can call these words connectors. This paragraph has three main parts: (1) a part about the Wheaton River, (2) a part about Wheaton Hill, and (3) a part about the Big Old Tree. Another way of saying this is that this paragraph has three main points which are indicated by the major connectors. Finally author talks about natural landmarks so mayor's house is not in sync with the passage.

Shortcut / Tip:

Connectors help organize the main parts of your paragraph. Look for the connectors and road signs in sentences. Using such major connectors is an important way of providing coherence in a paragraph.

165 D The connectors are For example in the second sentence, which introduces the first supporting point (the Mercury program); As another example, which begins the second main point (the Gemini program); and the word Finally, which introduces the third and last main point (the Apollo moon program). But 4th statement is odd as it talks about the movie Gravity.

Shortcut / Tip:

Connectors help organize the main parts of your paragraph. Look for the connectors and road signs in sentences. Using such major connectors is an important way of providing coherence in a paragraph.

166 D These sentences are generally good, but the sentence, Several weeks later, Leonov's spacewalk was followed by that of U.S. astronaut Ed White, does not have anything to do with the major goals of the various Russian space projects. That is, it is an off-topic sentence, so we can say that the paragraph somewhat lacks unity. In order to improve the paragraph, we should omit this sentence, even though it is historically accurate.

Shortcut and Tip:

Look out for keywords and roadsigns which are out of scope or off-topic. Like US here is out of scope as other sentenses talk about Russia.

167 C Statement 1: Alone not sufficient

Statement 2: Alone not sufficient

Statement 1 and 2 both:

See diagram.

Arrangement is complete only after both statements are used.

168 A Clearly every letter is increased by 1 as

M +1 N

A +1 B

D +1 E

R +1 S

A +1 B

S +1 T

So after increasing every character in work BOMBAY by 1, we get CPNCBZ

DELHI is coded as FZAJU is following no rules.

169 A Statement 1: Sufficient

From the given information, we can build the following table:

Japanese	Hindi	English	French
R1 yes	yes	no	no
R2 yes	no	yes	no
R3 no	yes	yes	no
R4 yes	no	no	yes
R5 no	yes	yes	yes

To converse with R4, the other person should be acquainted with at least one common language with R4. R1 and R2 both know Japanese.

Statement 2: Not sufficient.

170 C Statement 1: Alone not sufficient

Statement 2: Alone not sufficient

Statement 1 and 2 both: yes together its sufficient to answer.

171 C Statement 1: Alone not sufficient

Statement 2: Alone not sufficient

Statement 1 and 2 both:

To solve this problem we will focus on the given statements

1. C does not sit near to A or E, from this we can say that C is not seated to the right of left of A and E

2. A and E have three persons sitting between them, since there are only five person which are sitting on the bench so position 1 and 5 must be occupied by A and E.

3. We have said that C is not seated on either side of the A and E, so the position of C is fixed in the middle.

From the above observations we have concluded that

Position (1,5) = A or E (vice versa)

Position (3) = C

Position (2, 4) = B or D (vice versa)

172 A Bluff means to cheat or betray

173 D Affluent is rich.. Opposite will be poor or destitute

174 B Retrench means to reduce

175 D Benevolent means generous or munificent

176 E Enervate is to reduce or Debilitate

177 B Since we are given that in a secret way of writing INDIA is written as JOEB. Therefore, Each letter of the given word is moved one step ahead and this gives us the subsequent letter of its code. Hence the code for SPACE is TQBDF. Thus option (2) is correct

178 B Since we are given that in a given code SISTER is coded as 535301. UNCLE as 84670 and BOY as 129. Therefore,

in this code the alphabets are coded as follows

S I S T E R U N C L E B O Y

↓↓↓↓ ↓↓↓↓ ↓↓↓

5 3 5 5 0 1 8 4 6 7 0 1 2 9

If we apply this method , the code for RUSTIC comes out to be 185336.

179 A Shortcut: Use Cetking's pairing & pre phrasing Strategy, the main figure gets vertically inverted & changes shape in every two steps. The arrow inside the main figure rotates by 45degree & 90degree ACW alternately. The shaded & unshaded circles interchange one another in each step.

180 E Shortcut:

Percent of students who are 25 years old or older is $0.4*48+0.2*52=30$, so percent of people who are less than 25 years old is $100-30=70$.

181 E Saint Augustine - linear concept of time - YES

Ancient Greek - cyclic time as a superstition - YES

Para 4 first line - Saint Augustine argued strongly in favor of this linear concept of time, condemning ancient Greek cyclic time as a superstition

Christian - idea of time as an irrevocable process - YES

The Christian idea of time as an irrevocable process from Creation to Judgment has been surprisingly adaptable to different intellectual and artistic periods of European history.

Thomas Mann - lacking in substance and yet almighty - YES

First line para 2 What is time? It is a secret – lacking in substance and yet almighty. Those are the words of the German Nobel Laureate in Literature, Thomas Mann.

Hence, all are correct.

182 B This was easy question

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First part of para 3.

Nevertheless, throughout medieval and modern Western history time has generally been presented not as a circle but as a line or, more exactly, an irreversible process with a unique beginning and a unique end.

Shows time as a line with clear start and end not a circle.

Clocks are always made in circular shape - NO - out of scope

Time is process like a line with clear end and beginning - YES - given in the para 3

Time is irreversible which comes back - NO - given to confuse you with word irreversible

Greek supported the idea of time being cyclic - NO - This is true but not in scope for this question

183 D This question is to be answered on the basis of para 2. Only A and B are true.

A. Time is surreptitious – lacking in substance and yet colossal - YES - this is given in line one itself. Words secret and almighty are changed to disguise the statement.

B. His views about time is quite similar to Saint Augustine - YES - Yes this is given in next line in para 2.

C. Time is secret which revolves in cycle yet almighty but lacking substance - NO - this is classical RC error. students tends to match words like secret and almighty but miss out on important info like time being linear not circular. but this statement talks about time being cyclic.

184 A Christian, Jews, St Augustine, Thomas Mann all agree or talks about time as a linear endless process but Greek used to think time as cyclic. This is given in third para first line.. In his main work, City of God, Saint Augustine argued strongly in favor of this linear concept of time, condemning ancient Greek cyclic time as a superstition.

185 D Only A and B are true. This is given in last paragraph.

A. Time is now infinite number of temporal fractions because of invention of watches – YES – This is given in second last line. Scientific idea of time evolved due to breakthrough of watches.

B. Time is an endless process without a beginning and without end – YES – this is clearly stated in the last para.

C. Time is now break free from old connections with the planets and the seasons of the year – NO – according to last para time has only theoretically released from its old connections but not practically.

186 D According to the context of the passage it should be Critical.

Correct paragraph

The issue is not one of competence, expertise or the availability of technology; it is one of intent and drive. While the political executive strives to fund its elections at the local, State and national levels and in finding the economic wherewithal to win elections, it hardly finds the time to think about the people. If all members of the permanent executive and the judiciary strive to work for the betterment of the people, the country will progress by leaps and bounds.

187 C Quite unbelievable sounds right here.

Correct paragraph

The issue is not one of competence, expertise or the availability of technology; it is one of intent and drive. While the political executive strives to fund its elections at the local, State and national levels and in finding the economic wherewithal to win

elections, it hardly finds the time to think about the people. If all members of the permanent executive and the judiciary strive to work for the betterment of the people, the country will progress by leaps and bounds.

188 D Some of the most complex calculation is right

Correct paragraph

The issue is not one of competence, expertise or the availability of technology; it is one of intent and drive. While the political executive strives to fund its elections at the local, State and national levels and in finding the economic wherewithal to win elections, it hardly finds the time to think about the people. If all members of the permanent executive and the judiciary strive to work for the betterment of the people, the country will progress by leaps and bounds.

189 B Of the article is correct. This, their and there will be out as article name is given in the next part.

Correct paragraph

The issue is not one of competence, expertise or the availability of technology; it is one of intent and drive. While the political executive strives to fund its elections at the local, State and national levels and in finding the economic wherewithal to win elections, it hardly finds the time to think about the people. If all members of the permanent executive and the judiciary strive to work for the betterment of the people, the country will progress by leaps and bounds.

190 C Its present tense so 'are unable to' is correct

Correct paragraph

The issue is not one of competence, expertise or the availability of technology; it is one of intent and drive. While the political executive strives to fund its elections at the local, State and national levels and in finding the economic wherewithal to win elections, it hardly finds the time to think about the people. If all members of the permanent executive and the judiciary strive to work for the betterment of the people, the country will progress by leaps and bounds.

191 D This topic is called Synthesis of Sentences. This was introduced first time in CET 2012 and is now regular. There are 50 questions given in your dashboard. please go through them.

Only A and B are correct.

A) 1996 Immigration act helped deport many immigrants including some with minor convicted with minor crimes in the last 20 years... GRAMMAR CORRECT..

B) In the past 20 years or so, thanks in large part to the 1996 Immigration Act, record numbers of legal immigrants, even those convicted of the most minor of crimes, have been detained and deported.... GRAMMAR CORRECT..

C) Not possible..

192 D This topic is called Synthesis of Sentences. This was introduced first time in CET 2012 and is now regular. There are 50 questions given in your dashboard. please go through them.

Only A and C are correct.

He is very hardworking and has all the talent needed for an actor. He is still struggling to get a break.

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- (A) Despite being talented and hardworking..... he is struggling to get a role... GRAMMAR CORRECT..
(B) He is struggling because.... GRAMMAR INCORRECT..
(C) Although he has all.... he is struggling to get a break... GRAMMAR CORRECT..

193 E This topic is called Synthesis of Sentences. This was introduced first time in CET 2012 and is now regular. There are 50 questions given in your dashboard. please go through them.

All three are possible start of the sentence

Here's something critics of globalisation wont like to see. Enrolment in English-medium schools in India has gone up sharply in just two years. It was 4.3 per cent of total enrolment in 2003-04 and now its 6.3 per cent in 2005-06.

(A) Enrolments in english medium.... has gone up from 4.3 to 6.3 in 2 years as against the wishes critics of globalisation. ... GRAMMAR CORRECT..

(B) Last two years... enrolments in english medium has gone up from 4.3 to 6.3 as against the wishes critics of globalisation... GRAMMAR CORRECT..

(C) Critics of globalisation... wont like this but enrolment in english medium has gone up from 4.3 to 6.3 as against the wishes critics of globalisation... GRAMMAR CORRECT..

194 D This topic is called Synthesis of Sentences. This was introduced first time in CET 2012 and is now regular. There are 50 questions given in your dashboard. please go through them.

Only A and B are correct.

(A) So many people put in... GRAMMAR CORRECT... So many people put in huge efforts by pushing their mind and body to staggering limits to achieve success.

(B) Pushing their mind.... GRAMMAR INCORRECT ... Sentence cannot be formed.

(C) To achieve success.... GRAMMAR CORRECT ... To achieve success so many people put in huge efforts by pushing their mind and body to staggering limits.

195 A This topic is called Synthesis of Sentences. This was introduced first time in CET 2012 and is now regular. There are 50 questions given in your dashboard. please go through them.

Only A is correct.

Tradition is accumulated past which people get attached to. People are not living the present. People have no hope for the future

A) Tradition is accumulated pastGRAMMAR CORRECT ... Tradition is accumulated past which people get attached to because they are not living the present and they have no hope for the future.

B) People who are not livingGRAMMAR INCORRECT ... Sentence cannot be formed.

C) People have not hope.....GRAMMAR INCORRECT ... Sentence cannot be formed.

196 C Its present tense so left wing poses a serious challenge

Correct passage

Left-wing extremism poses a serious challenge to India's internal security and has a devastating effect on the lives of the poor. Instead of spending huge amounts of money without a direct action plan, a result-oriented and balanced approach directed towards the root cause is what we need. Equipping the poor with better livelihood options will help empower them. The article

shows that what we need are a few simple steps by a group of committed political parties and administrative officers.

197 B As the effect is negative it should be devastating effect
Correct passage

Left-wing extremism poses a serious challenge to India's internal security and has a devastating effect on the lives of the poor. Instead of spending huge amounts of money without a direct action plan, a result-oriented and balanced approach directed towards the root cause is what we need. Equipping the poor with better livelihood options will help empower them. The article shows that what we need are a few simple steps by a group of committed political parties and administrative officers.

198 A Without action plan is correct

Correct passage

Left-wing extremism poses a serious challenge to India's internal security and has a devastating effect on the lives of the poor. Instead of spending huge amounts of money without a direct action plan, a result-oriented and balanced approach directed towards the root cause is what we need. Equipping the poor with better livelihood options will help empower them. The article shows that what we need are a few simple steps by a group of committed political parties and administrative officers.

199 C It should be enabling the poor or Equipping the poor.

Correct passage

Left-wing extremism poses a serious challenge to India's internal security and has a devastating effect on the lives of the poor. Instead of spending huge amounts of money without a direct action plan, a result-oriented and balanced approach directed towards the root cause is what we need. Equipping the poor with better livelihood options will help empower them. The article shows that what we need are a few simple steps by a group of committed political parties and administrative officers.

200 B What we need is correct. Its given in paragraph earlier as well.

Correct passage

Left-wing extremism poses a serious challenge to India's internal security and has a devastating effect on the lives of the poor. Instead of spending huge amounts of money without a direct action plan, a result-oriented and balanced approach directed towards the root cause is what we need. Equipping the poor with better livelihood options will help empower them. The article shows that what we need are a few simple steps by a group of committed political parties and administrative officers.

Disclaimer - Actual CET questions are not allowed to be disclosed so we have created a simulator of CET day 2 paper. None of the questions given here represents actual questions. They are sample questions.