# CETking

MockEngineering

Program

CET 2007 paper

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Directions (Qs, No.1 to 3): These questions are to be answered on the basis of the three views of a cube given below:
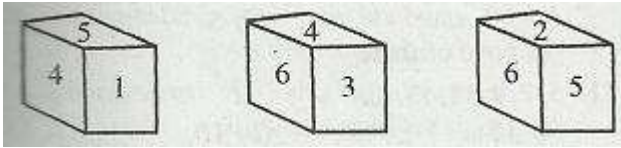
1.   Which number is at the bottom face of figure I?
(a) 3   (b) 2
(c) 6   (d) 1
(e) none of these

2.   Which number is on the face opposite to 4?
        (a) 2   (b) 3
        (c) 6   (d) 1
         (e) none of these

3.   Which number is on the face opposite to I?
        (a) 3   (b) 2
        (c) 6   (d) 4
         (e) none of these

4.   Two positions of a dice are shown below. Find out which number is opposite to 4.
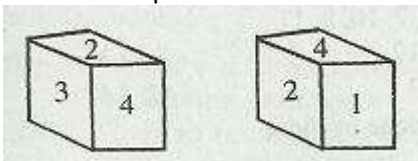
(a) 3   (b) 6
 (c) 5   (d) 1
(e) none of these

Directions (Qs. No.5 to 11): In these questions, some relationships have been expressed through symbols as shown below:
$ means less than
d means not greater than
- means equal to
+ means not equal to
x means not less than
= means greater than

Study the meanings of these symbols and pick up the correct answer from the answer choices for each of the questions 5 to 11 .

5.   x $ y+ z implies
(a) x-y=z   (b) x x y-z
(c) x d y x z   (d) x-y x z
(e) none of these

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6.   x $ y - z implies
(a) x x y - z   (b)x – y x z
(c) x-y x z   (d) x x y=z
(e)none of these

7.   x- y + z implies
(a) x+ y +z   (b) x $ y-z

(c)x-y $ z   (d) x d y=Z
(e) none of these

8.   x- y = Z implies
(a) x+ y-z   (b) x d y x z
(c) x+y$z   (d) x- y x z
(e) none of these

9.   x d Y - z implies
(a)x=yxz   (b) x-y=z
(c) X-Y d Z   (d) x x y x z
(e) none of these

10.   x = Y d z implies
(a) x+ y $ z   (b)x-y=z
(c) X d yxz   (d) x d y-z
(e) none of these

11.   x + y d z implies
(a) x $ y=z   (b)x=y=z
(c) x=y d Z   (d)X d y=Z
(e) none of these

Directions (Qs. No. 12 to 15): These four questions are to be answered on the basis of the following information. A five-members research group is to be chosen from the mathematicians A, B, C and D and the physicists E, F, G and H. At least 3 mathematicians must be in the group. However,
 * A refuses to work with D
* B refuses to work with E
* F refuses to work with G
* D refuses to work with F.

12 . If B is chosen, who else would have to be in the group? .
(a) F   (b) G
(c) A   (d) C
(e) none of these

13.   If Band C are chosen, which of the following is definitely true?
        P: A is chosen, Q: D is chosen, R: Either F or G is chosen.
(a) P only   (b) Q only
(c) R only   (d) Q and R only
(e) none of these

14.   If G is rejected which other member could not work with the group?

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(a) A   (b) B.
(c) D   (d) F
(e) none of these

15.   If H is chosen, which of the following must be true?
P: A must be chosen Q : B must be chosen R : G must be chosen
(a) P only   (b) Q only
(c) R only   (d) P, Qand R
(e) none of these

16.   ENGLAND is written as 1234526 and FRANCE as 785291. How will GREECE be written in this coding scheme?
(a)381191   (b) 391911.
(c) 394132   (d) 562134
(e) none of these

17.   BRIDGE is written as EULGJH in a certain code. How will FRUIT be written in that code?
     (a) IUXLW   (b) IVLXW
     (c) IUWXL   (d) IUXVT
     (e) none of these

Directions (Qs. No. 18 to 25) : Find the next term in the given series in each of these questions?

18.   198, 194, 185, 169, …..
(a) 136   (b) 144
(c) 112   (d) 92
(e) none of these

19.   198,202,211,227, ….
(a) 210   (b) 212
(c) 252   (d) 27
(e) none of these

20.   125, 80,45,20, ….
(a) 8   (b) 12
(c) 10   (d) 5
(e) none of these

21.   5,7,9,11,13, ….
(a) 15   (b) 10
(c) 8   (d) 6
(e) none of these

22.   0,2,5, 12,20, ….
(a) 38   (b) 30
(c) 45   (d) 60
(e) none of these

23.   35, 30, 25, 20, 15, 10, …
(a) 15   (b) 10

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(c) 5   (d) 2
(e) none of these

24.   5,6,8,9, 11 ....
(a) 15   (b) 12
(c) 17   (d) 20
(e) none of these

25.   6,9, 7, 10, 8, II ...
(a) 12   (b) 13
(c) 9   (d) 14
(e) none of these

Directions (Qs. 26 to 30): In each of these questions, two statements are fo~lowed by two possible inferences. Take the two given statements to be true even if they are at variance with the known facts and then mark your answer as:
(a) if only conclusion A follows.
(b) if only conclusion B follows .
(c) if neither A nor B follows.
(d) if both A and B follow.
(e) if no relation is possible.

26. Statements: All books are pencils, All pencils are flowers.
     Conclusions: A: All books are flowers.
               B: Some Flowers are books.

27. Statements: Some pens are tables.
               No table is blue.
     Conclusions: A: No pen is blue.
               B: No blue thing is pen.

28. Statements: Some trees are horses.
               Some ships are trees.
     Conclusions: A: Some horses are ships.
               B: Some trees are not ships.

29. Statements: Some trees are boats.
               All trees are ships.
     Conclusions: A: Some ships are trees.
               B: Some trees are ships.

30. Statements: All goats are animals.
               All animals are four-footed.
     Conclusions: A: All goats are four-footed.
               B: Some four-footed are goats.

Directions (Qs. No. 31 to 40): Study the two 'S the 'Assertion' and the 'Reason' given in each of the following questions. Then mark your answer as.

(a) if both 'A' and 'R' are true and 'R' is the correct explanation of 'A'.
(b) if both 'A' and 'R' are true but 'R' is NOT a correct explanation of 'A'.

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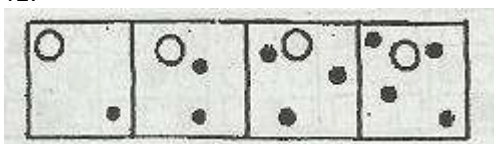**GDPI Clinic** – Get us a call from a Bschool and we will convert it for you…
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(c)if 'A' is true but 'R' is false.
(d)if bo th 'A' and 'R' are false.
(e)if nothing can be said

31.   Assertion A: Prices can be brought down by increasing production.
        Reason R: It is so because supply of the goods is made more than its demand.

32.   Assertion A: Alexander could not advance across the Beas river.
        Reason R: His army was completely exhausted.

33.   Assertion A: Tides indicate the regular and periodic rise and fall in sea level.
        Reason R: Tides are caused by the gravitational pull of the moon and the sun.

34.   Assertion A: Indian President is the head of the State.
        Reason R: Indian Parliament consists of the President, LokSabha and RajyaSabha.

35.   Assertion A: When a person is standing in a lift which is either at rest or moving up or moving down with uniform speed, he does not find any apparent change in his weight.
        Reason R: The reaction of the floor of the lift is equal to his weight.

36.   Assertion A: Comets belong to the solar system.
        Reason R: All comets come near the sun after regular intervals,

37.   Assertion A: When a body is dipped in a liquid fully or partially, there is a decrease in its weight.
        Reason R: The decrease in weight is due to the higher density of the displaced liquid.

38.   Assertion A: An iron ball floats on mercury but gets immersed in water.
        Reason R: The specific gravity of iron is more than that of mercury .

39.   Assertion A: No food material normally enters the wind pipe during swallowing.
        Reason R: When we swallow, the back portion of our tongue cover the opening of the wind pipe.

40.   Assertion A: There is rainbow in the sky only after rains.
        Reason R: Water drops suspended in the air break up sun rays into seven colours.

Directions (Qs, No. 41 to 50): If the figures continue to change in the same order, what should the fifth figure be? Select (a); (b), (c), (d), (e) from the second figure. (In chronological Order).

41.

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42.

43.

44.

45.

46.

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47.

48.

49.

50.

Directions (Qs. 51 to 60): Read each sentence to find out whether there is allY grammatical or idiomatic error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error, the answer is 'e': (Ignore the errors of punctuation, if any.]

51. (a) Not one of the children/(b) has ever sang/(c) on any occasion/(d) in public before/(e) No error.

52. (a) Neither the earthquake/(b) nor the subsequent fire/(c) was able to dampen/(d) the spirit of the residents./(e) No error.

53. (a) The customer scarcely had/(b) enough money 'to pay/(c) to the cashier/(d) at the cash counter./(e) No error.

54. (a) The apparently obvious solutions/(b) to - of his problems/(c) were overlook by/(d) many of his friends./(e) No error.

55. (a) By arresting the local criminal/(b) and encouraging good people /(c) we can end/(d) hostilities of that area./(e) No error.

56. (a)The principles of equal justice/(b) for all is one of/(c) the cornerstones of our/(d) democratic of life./(e) No error.

57. (a)The Trust has succeeded/(b) admirably in raising/(c) money for/(d) its future programmes./(e) No error.

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58.   (a)Honesty, integrity and being intelligent/(b) are the qualities which/(c) we look for when/(d) we interview applicants./(e) No error.

59.   (a) In order to save petrol,/(b) motorists must have to/(c) be very cautious/(d) while driving along the highways./(e) No error.   ,

60.   (a) If the by-stander had not been/(b) familiar with first-aid techniques,/(c) the driver which had met/(d) with the accident would have died./(e) No error.

Directions '{Qs. No. 61 to 65): Rearrange the following six sentences A, B, C, D, E & F in a proper sentence so as to form a meaningful paragraph; then answer the questions given below them.

A)   A case in point is the programme involving the SardarSarovar Dam which would displace about 2,00,000 people.

B)   Critics decry the fact that a major development institution appears to absorb more capital than it distributes to borrowers.

C)   For all its faults, critics however concede that the bank remains a relatively efficient focuses on this non-profit bank's recent "profitability" .

D)   One of the key complains focuses on this non-profit bank's recent "profitability".

E)   Although the lives of millions of people around the globe have been improved by the bank's activities, it is now under fire.

(F) The bank is also being blamed for large-scale involuntary resettlement to make way for dams and other construction projects.

61.   Which sentence should come FOURTH in the paragraph?
(a) F   (b) C
(c) E   (d) B
(e) A

62.   Which sentence should come THIRD in the paragraph?
(a) B   (b) E
(c) A   (d) D
(e) F

63.   Which sentence should come LAST (i.e. SIXTH) in the paragraph?
(a) E   (b) D
(c) B   (d) A
(e) C

64.   Which sentence should come SECOND in the paragraph?
(a) C   (b) A
(c) D   (d) F
(e) E

65.   Which sentence should come FIRST in the paragraph?
(a) D   (b) F

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(c) C   (d) E
(e) B

Directions (Qs, No. 66 to 70): In each sentence below, a word/group of words has been underlined. Below each four choices (a), (b), (c), (d) are given. Pick out the one which can substitute the underlined word! group of words correctly, without changing the meaning of the sentence. If the sentence is correct as it is and no correction is required, give (e), as the answer.

66.   Had I realised how close I was to the edge of the valley, I would not have carried the bags there.
(a) Had I been realised
(b) If I would have realised
(c) When I realised
(d) Had I had realised
(e) No correction required

67.   By such time you finish that chapter, I will write a letter ..
(a) The time when
(b) By the time
(c) By that time
(d) The time
(e) No correction required

68.   Anyone interested in the use of computers can learn much if you have access to a personal , computer.
(a) they have access
(b) access can be available
(c) he or she has access
(d) one of them have access
(e) No correction required

69.   She cooks, washes dishes, does her homework and then relaxing.
(a) relaxing then   (b) then is relaxing
(c) relaxing is then   (d) then relaxes
(e) No correction required

70.   The chemist hadn't hardly any of those kind of medicines.
(a) had hardly any of those kinds
(b) had hardly not any of those kind
(c) had hardly some of those kind
(d) had hardly any of those kind
(e) No correction required

Directions (Qs, No. 71 to 73): Choose the word which is most nearly the SAME in meaning as the word or group of words given in bold as used in the passage.
71.   PERPE1UATING
(a) aggravating   (b) pioneering
(c) criticising   (d) destroying
(e) continuing

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72.   SUBDUEIJ
(a) drowned   (b) conquered
(c) overwhelmed   (d) submerged
(e) entangled

73.   REVULSION
(a) disgust   (b) avenge
(c) apathy   (d) feelings
(e) violence

Directions (Qs, No. 74 & 75): Choose the word which is most OPPOSITE in meaning of the word or group of words given in bold as used in the passage.
74.   GRADUAL
(a) unscrupulous   (b) dynamic
(c) rapid   (d) enthusiastic
(e) energetic

75.   COMPASSIONATE
(a) unlawful   (b) untrustworthy
(c) indecisive   (d) unsympathetic
(e) humanistic

Directions (Qs.No. 76 to 80): III each of the following sentences there are two blanks spaces. Below each sentence there are five pairs of words denoted by numbers (a), (b), (c), (d) and (e). Find out which pair of words can be filled up in the sentence in the same sequence to make the sentence meaningfully complete.

76.   Workers in earlier days were _'_'_ because of which the industries   a lot.
(a) honest, lost
(b) rich, flourished
(c) autocrats, developed
(d) inefficient; suffered
(e) idle, prospered

77.   The speaker's ____over his subject was seen through his __ discourse.
(a) mastery, fluent
(b) efficiency, thorough
(c) lethargy, dull
(d) grip, boring
(e) skill, pleasant

78.   The judge ___him because he was found____ on the basis of the evidence.
(a) acquitted, criminal
(b) praised, guilty
(c) sentenced, innocent
(d) suspended, involved
(e) pardoned, innocent

79.   The other servants had to __ since Rarnu alone __ all the food.
(a) leave, prepared
(b) eat, cooked
(c) wait, spoiled
(d) cook, wasted

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(e) starve, consumed

80.   If you do not ___all your monthly expenses would __ your income.
(a) spend, gain
(b) save, outwite
(c) economise, exceed
(d) think, swallow
(e) realise, enhance

Directions (Qs. No. 81 to 90): 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 words in each case.

Do women ... (81) ... leadership differently from what men do? And if so, will feminine leadership ... (82) ... where ... (83) ... leadership does not? A recent study suggests some-what paradoxically that female managers ... (84) ... their male ... (85) ... even when the personal characteristics of both are very ... (86) ... Of the two schools of thought, the structuralist theory argues that men and women do not receive the same treatment in the workplace and that stamping out ... (87) ... bias would stamp out the observed ... (88) ... In contrast, the socialisation theory contends that men and women experience work differently because men see work as more ... (89) ... to their lives. These ... (90) ... explanations apart, today business appears to be undergoing a ferninisation.

81.   (a) exercise   (b) undertake
         (c) authorise   (d) empower
         (e) tolerate

82.   (a) affect   (b) succeed
         (c) compete   (d) progress
         (e) dominate

83.   (a) traditional   (b) charismatic
         (c). masculine   (d) benevolent
         (e) authoritarian

84.   (a) outlive   (b) outcast
         (c) outwork   (d) outstand
         (e) outdo

85.   (a) employees   (b) subordinates
         (c) managers   (d) counterparts
         (e) superiors

86.   (a) minimal   (b) distinct
         (c) unique   (d) similar
         (e) constant

87.   (a) employment   (b) culture
         (c) gender   (d) class
         (e) category

88.   (a) variations   (b) discriminations

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   (c) resemblances   (d) distortions
   (e) equalities

89.   (a) needy   (b) desperate
       (c) preliminary.   (d) trivial
      (e) central
90.   (a) contradictory   (b) corresponding .
       (c) discriminating   (d) analogical
       (e) identical

Directions (Qs, No. 91 to 100): Read the following passage carefully and answer some of the questions. In modern times Abraham Lincoln stands as the model of a compassionate statesman. He showed this quality not only in' striving for the emancipation of the American blacks but in the dignity with which he conducted the American Civil War .

Lincoln did not fancy himself as a liberator. He thought it would be better for all if emancipation was a gradual process spread over many years. he proposed compensation for slave-owners in US bonds and grants for the rehabilitation of blacks- 'colonisation' as he called it. But fate was to deem otherwise. The haste with which the South wanted to break way from the union with the North, compelled him to move 'faster than he expected. Perhaps more than most men of his time he had thought through the issue of slavery. "We must free the slaves', he said, 'or be ourselves subdued'. Before reading his first draft of the Proclamation of Emancipation, he told his colleagues, In giving freedom to the slaves, we assure freedom to the free.'

On September 22, 1862, Lincoln set his hand on the Proclamation of Emancipation declaring that on the first day of January 1863, all persons held as slaves within any State 'shall be then, and forever free'.

Lincoln's revulsion for slavery left him without any moral indignation or passion against the slave-owners. The guilt of the slave-owners, he felt, should be shared by the whole country-the North and the South, for it seemed to him that everyone in the nation was an accomplice in perpetuating that system. To have whipped up any hatred against slave-owners would, to him, have been an act of malice.

'I shall do nothing in malice', he wrote, 'what I deal with is too .vast for malicious dealing.' As the Civil War was coming to a successful conclusion, a Northerner demanded of Lincoln: 'Mr. President, how are you going to treat the Southerners when the war is over?' Lincoln replied: 'As if they never went to war.'

When the news came of the victory of the Northern against the Confederate forces, someone suggested that the head of the Confederation Administration, Jefferson Davies, really ought to be hanged. 'Judge not, that ye be not judged.' Lincoln replied. As to the demand for the prosecution of rebels, Lincoln replied: 'We must extinguish our resentments if we expect harmony and union.' This was his last recorded utterance.

91.   The author of the passage seems to be
       (a) a staunch and biased critic of Abraham Lincoln ...
       (b) an advocate of the system of slavery.
       (c) an opponent of the system of slavery.
       (d) indifferent to Lincoln's remarkable achievements.
       (e) impressed with Lincoln's good qualities.

92.   According to Lincoln, the culprits of the system of slavery were.
       (a) the slave-owners alone
       (b) the slaves alone
       (c) both the slaves and the slave-owners

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(d) all the people in the country
(e) None of these

93. Which of the following statements is 'TRUE' in the context of the passage?
(a) Lincoln hailed the demand of hanging Jefferson Davies.
(b) Lincoln turned down the demand of the .prosecution of rebels.
(c) Lincoln wondered how mere compassion could lead to harmony.
(d) The Civil War was fought by the Northerners and Southerners against the enemies.
(e) None of these

94. Lincoln didn't have any hatred for the slave-owners because
(a) they were in a vast majority.
(b) they all belonged to upper caste.
(c) they would have treated him with malice.
(d) they were not guilty at all
(e) None of these

95. Lincoln's reply to the Northerner's questions regarding the treatment of the Southerners proves that
(a) the Southerners were wicked in their dealings.
(b) Lincoln did not have revengeful attitude towards the Southerners.
(c) the Northerners were in favour of the Southerners.
(d) Lincoln did not like the Southerner's act of breaking away from the Union with the North.
(e)Lincoln could control his anguish against the Southerners while expressing himself

96. The sentence 'In giving freedom ... to the free' (last sentence of Para 2) means
(a) by freeing slaves, we are honouring the concept of freedom.
(b) by freeing slaves, we are safeguarding our own interest.
(c) if we give freedom to the slaves, they will serve us better.
(d) if we do not give freedom to the slaves, they will
(e) None of these

97. What came in Lincoln's way of carrying out emancipation as a gradual process?
(a) The haste of the South to break away from the Union with the North.
(b) The inadequate compensation given to slave-owners.
(c) His own over-enthusiasm to complete the process fast.
(d) His proposition to give grant for the rehabilitation of slaves ..
(e) None of these.

98. Which of the following makes Abraham Lincoln a compassionate statesman?
(a) His hesitation in striving for emancipation of American blacks.
(b) His indifference in conducting the American Civil War.
(c) His efforts to force the American blacks from slavery.
(d) His efforts to conclude the American Civil War without dignity.
(e) None of these.

99. The term 'colonisation' as used in the passage means
(a) making separate dwelling arrangement for slave-owners.
(b) rehabilitation arrangements made for slave-owners.
(c) efforts made by American blacks to free themselves.
(d) handing over slaves to the slave owners.

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(e) None of these

100.   The incidents in the passage prove that Lincoln was
         (a) not a firm administrator.
         (b) afraid of the majority of slaves.
         (c) unduly concerned for the safety of the rebels.
         (d) s sympathetic and kind-hearted statesman.
         (e) unreasonably in favour of slaves.

Directions (Qs.101 to 104): Two information I and II about the problem have been given. Mark answer
(a) If I alone is sufficient to give answer.
(b) If n alone is sufficient to give answer.
(c) If both I and II are necessary to give answer.
(d) If either l or II is sufficient to give answer.
(e) If neither I nor II is sufficient to give answer.

101.   A's age is 3 years more than the average age of B and C. What is A's age?
         I. B's age is 4 years more than C's.
         II. The total age of A, Band C is 40 years.
102.   How much time will a train x metres long take to cross a platform y metres long?
         I. The speed of the train is m km/hr.
         II. The length of the train is half of that of the platform.

103.   How much profit does the trader make?
         I. He sells 5 kg of apples at the rate of Rs. x per kg.
         II. He makes 30% profit per kg.

104.   What is the average marks obtained by a student?
         I. He secured P, Q, R, Sand T marks respectively but marks for one paper is awaited.
         II. The full marks for each paper is 100.

Directions (Q~. No. 105 to 108): In each of the following questions a number series is given: Below it a number is given followed by (a), (b), (e), (d) and (e). You have to complete the series starting with the number, according to the sequence of the given series.
105.   8, 18,34,70,138,278
         5   (a)   (b)   (e)   (d)   (e)
         Which of the following will come in place of (c)?
         (a) 44   (b) 42
         (c) 46   (d) 48
         (e) 52

106.   7, 9, 21, 67, 273, 1371
         4   (a)   (b)   (c)   (d)   (e)
         Which of the following will come in place of(b)?
         (a) 12   (b) 15
         (c) 18   (d) 20
          (e) 17

107.   180, 131, 89, 54, 26, 5
         265 (a) (b)   (c)   (d)   (e)

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Which of the following will come in place of(d)?
(a) 106   (b) 96
(c) 91   (d) 111
(e) 108

108.   7, 36, 146, 441, 886
   5   (a)   (b)   (c)   (d)   (e)
What will come in place of (d)?
(a) 321   (b) 646
(c) 324   (d) 624
(e) None of these

109.   What should come in place of question mark in the following equation?
60% of 1250 +? = 36% of750 + 80% of 1450
(a) 720   (b) 680
(c) 690   (d) 710
(e) None of these

110.   What approximate value should come in place of question mark in the following equation?
743896 + 24965 - 76879 - 13249 = ?
(a) 697000   (b) 731000
(c) 679000   (d) 671000
(e) 674000

111.   What is the probability of getting 8 in a single throw with two dice?
(a) 1/6.   (b) 5/12
(c) 5/36   (d) 7/36
(e) None of these

112.   What is not true about 480249?
(a) It is divisible by 9
(b) It is divisible by 11
(c) It is a perfect square
(d) If it is divided by 3 the quotient is a perfect square

113.   A trader bought two cows for Rs. 18000, He sold one cow at 10% profit and the other at 10% loss. What was his loss or gain?
(a) 1% loss   (b) 1 gain
(c) 3% gain   (d) Data inadequate

114.   A man deposited at an average Rs. 250 per month for a year. If the average of deposits of the first six months was Rs. 200 and the average of deposits of the last seven months was Rs. 325, what was his deposit in the sixth month?
(a) Rs. 325   (b) Rs.350
(c) Rs.475   (d) Rs. 425
(e) None of these

115.   From a point the angle of elevation to the top of a tree is 45°. Moving 60 ft towards the tree the angle is such that tan e = 2S What is the height of-the tree?
(a) 150 ft   (b) 120 ft
(c) 60 ft   (d) 100 ft

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(e) None of these

Directions (Qs, No. 116 to 120): The pie chart given below shows the market share of the cosmetics for men'. Study the graph carefully and answer the questions that follow:
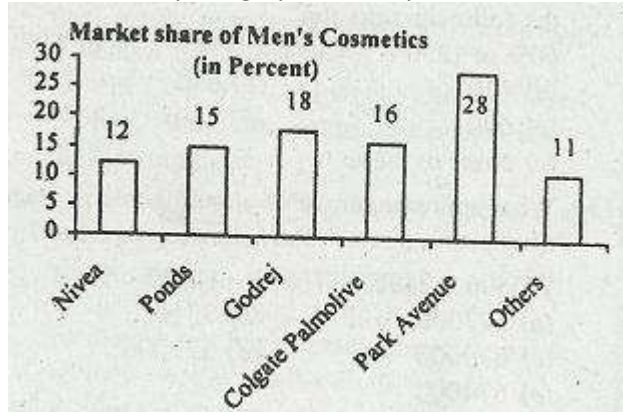
116.   If the total sales of Colgate-Palmolive for men's cosmetics was Rs. 38.4 crores, what approximately was the total sales (in Rs.) of Nivea?
        (a) 26.4 cr   (b) 25.6 cr
        (c) 28.8 cr   (d) 22 cr
        (e) None of these

117.   If the total sales in this segment is estimated to be Rs. 350 crores for the next year, what will be the share (in Rs) of Godrej?
        (a) 68 Cr   (b) 63 cr
        (c) 66 cr   (d) 61 cr
         (e) None of these

118.   In the above question what will be the difference (in Rs.) in the total sales 'of Park Avenue and Colgate- Palmolive?
        (a) 40 cr   (b) 44 cr
        (c) 42 cr   (d) 46 cr
          (e) None of these

119.   If men's cosmetic share only 24% of the total market for cosmetics, what is the share of Park Avenue in the total market?
        (a) 5.74%   (b) 6.2%
        (c) 6.17%   (d) 6.72%
        (e) None of These

120.   If the above data is represented in a pie chart, what will be the central angle for Pond's?
        (a) 60°   (b) 65°
        (c) 54°   (d) 80
        (e) 75°

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Directions (Qs. No. 121 to 125): The following graph shows sales trend (% growth rate) of two-wheelers for the period 1993-97. Study the graph carefully and answer the questions that follow.
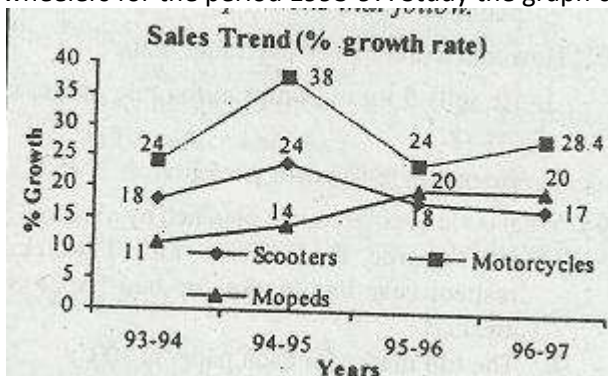
wheelers for the period 1993-97. Study the graph carefully and answer the questions that follow.

121. In the year 1995-96 growth rate of motor-cycles was what per cent of growth rate of scooters?
    (a) 125%   (b) 13333%
    (c) 150%   (d) 137.5%
    (e) None of these

122. If the total sale of scooters in the year 1994~95 was 7,04,3,50, what was its sale in 1995-96?
    (a) 8,32,033   (b) 8,41,133
    (c) 8,31,133   (d) 8,4'2,033
    (e) None of these

123. In which of the following years was percentage growth of motorcycles more than 20% more than the growth rate of Mopeds?
    (a) 1993-94   (b) 1994-95
    (c) 19.95-96   (d) 1996-97
    (e) None of these

124. If the total sale of mopeds in 1994-95 was 2,75,9000, what was its approximate sale in 1996-97?
    (a) 3,76,000   (b) 3,97,000
    (c) 3,86,000   (d) 3,94,000
    (e) None of these

125. In the above question what was the approximate sale of mopeds in '1993-94?
    (a) 2,52,000   (b) 2,49,000
    (c) 2,61,000   (d) 2,42,000
    (e) None of these

Directions (Qs, 126 to 130): Study the table given below and answer the questions that follow:

	Eng	Phy	Chern	Math	Bio
P	75	60	55	98	61
Q	68	45	63	92	58
R	73	56	52	81	42
S	78	52.	65	98	41
T	75	70	68	96	69
U	51	43	61	92	59

126. Who among the following scored the highest percentage of marks, if full marks for English and Maths be 100 and for others 75?
    (a) P   (b) Q
    (c) R   (d) S
    (e) T

127. Who among the following scored the lowest?
     (a) Q   (b) R   .
    (c) S   (d) T
     (e) U

128. What percentage of marks did P get in Science?
    (a) 73.2   (b) 74
    (c) 58.6   (d) 78.2 .
    (e) 80.2

129. What percentage of marks would U get if he got 63 in Physics and 64 in Bio?
    (a) 79.3   (b) 76.4
    (c) 73.9   (d) 81.4
    (e) 82.3

130. What would be the percentage of marks of S if full marks of each subject would be 100?
    (a) 68.6   (b) 66.8
    (c) 64.8   (d) 69.3
    (e) None of these

Directions (Qs.131 to 135): Study the following table carefully and answer the questions given below it.

Number of candidates appeared and passed in different disciplines over the years

Year	Marketing		Personnel		Finance	
	App.	Passed	App.	Passed	App.	Passed
1991	13508	2156	32156	4715	8624	1925
1992	14005	2239	33019	8731	8731	1864
1993	13152	1956	31433	7846	7846	2021
1994	10697	2132	28667	9238	9238	1738
1955	11648	2062	29048	4526	9485	1824
1996	9639	1862	32247	4413	8732	1638

Year	Banking		Total	
	App.	Passed d	App.	Passed d
1991	3169	620	57527	9416
1992	3724	584	59479	9706
1993	4018	675	56454	8960
1994	4269	694	54754	8538
1995	4293	712	54754	9124
1996	4485	730	55103	8643

131. What was the approximate percentage increase in the number of candidates passed under Finance discipline from 1992 to 1993?

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(a) 18   (b) 26
(c) 32   (d) 8
(e) 12

132. In which of the following years was the percentage of candidates passed to appeared the maximum in the case of Personnel discipline?
     (a) 1992   (b) 1994
     (c) 1996   (d) 1991
     (e) 1995

133. In which of the following disciplines was there a continues increase in the number of candidates appeared over the years?
(a) Marketing
(b) Banking
(c) Personnel
(d) Personnel & Banking
(e) None of these

134. In which of the the following years, was the percentage of candidates appeared in the Marketing's discipline approx. 20% W.r.t. total students appeared in Marketing over the period?
     (a) 1995   (b) 1993
     (c) 1994   (d) 1992
     (e) None of these

135. In which of the following years, the number of candidates passed under Personnel discipline was 2.5 times of the candidates passed in the Finance discipline?
     (a) 1992   (b) 1994'
     (c) 1993   (d) 1996
     (e) None of these

Directions (Qs, 136 to 140): In the table below the production and sale of certain products is given. Study the table and answer the questions that follow:

Month	April		May		June		July	
Prod	Prod	Sale	Prod	Sale	Prod	Sale	Prod	Sale
Prod A	112	106	128	117	272	178	190	208
Prod B	2124	1876	2050	2115	2180	2035	2546	2380
Prod C	680	618	680	638	670	670	725	710

136. The minimum percentage of sale of product A was in
     (a) April   (b) May
     (c) June   (d) July
     (e) None of these

137. What per cent of total Production of A was sold over the period?
     (a) 94.25   (b) 88.50
     (c) 86.75   (d) 84.50

(e) 85.25

138.   In which of the month(s) was the sale of product C above average?
        A. April   B. May   C. June   D. July
        (a) B &C   (b) B &D
        (c) C & D   (d) A&C
        (e) None of these

139.   In which month was sale of C more than the production?
        (a) April   (c) June
        (b) May   (d) July
        (e) None of these

140.   In which month sales-production ratio for all products was maximum?
        (a) April   (b) May
        (c) June   (d) July
        (e) None of these

Directions (Qs. 141 to 145): Three of the four parts numbered a, b, c and d are equal. That part which is not equal is your answer, if all of them are equal your answer is 'e', i.e. No error.

141. $\sqrt{144} + \sqrt{256} = 2 \times 2^2 + 4^2 = \sqrt{144} + \sqrt{144}$
        $+\sqrt{16} = \sqrt{676} + \sqrt{4}$ No error

142.   32% of 150 $= \sqrt{16} \times \sqrt{144} = 80\%$ of 60
        $= 3^2 \times 3 + 8$ No error

143. $(a+b+c)^2 = (a+b+c)(a+b-c)$
        $= (a+b)^2 - c^2 = \{(a-b)^2 + 4ab\} - c^2$ No error

144. $6^2 + 8^2 = 10^2 = \sqrt{625} \times \sqrt{16} = \sqrt{1000}$ No error

145.   (a+b)-c = a+b – c =-(-a – b -c) =-(-a -b+c) No error

146.   15 men do a work in] 2 days working 8 hours a day. In how many days will 15 women do that work working 6 hours a day if 3 women work as much as 2 men?
        (a) 20 days   (b) 18 days
        (c) 22 days   (d) 24 days
        (e) None of these

147.   An amount yielded Rs. 2868 in 3 years at the rate of 6 Y2% p.a. S.1. What was the amount?
        (a) Rs. 2500   (b) Rs. 2600
        (c) Rs. 2550   (d) Rs. 2400
        (e) Rs. 2350

148.   An office cabin is 12 ft wide, 16 feet long and 12 ft high. What will be the cost of covering its walls with paper 2 ft wide it costs Rs. 2.50 per foot?

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(a) Rs.900   (b) Rs. 840
(c) Rs.750   (d) Rs. 800
(e) None of these

149.   How many bricks will be needed to build a wall 10 inches thick, 10ft. long and 8 ft. high if the brick is 10 inches long, 4 inches wide and 2.5 inches thick?
         (a) 1152   (b) 940
         (c) 954   (d) 1064
         (e) 1164

150.   A train 115 metres long is moving at the speed of 60 km/hr. It crosses another train moving at the speed of 45 km/hr in -the same direction in 48 sec. What is the length of the other train?
         (a) 115m   (b) 95 m
         (c) 85 m   (d) 80 m
         (e) None of these

Directions (Qs, No. 151 to 160): Below are given two passages each followed by several inferences. You have to examine each inference separately in the context Of the passage and decide upon its degree of truth or falsity.
Make answer:
(a) if you think the inference is 'definitely true'.
(b) if you think the inference is 'probably true' though not definitely true in the light of the facts given;
 (c) if you think the 'data are inadequate', i.e. from the facts given you cannot say whether the inference is likely to be true or false;
(d) if you think the inference is 'probably false' though no definitely false in the light ofthe facts given; and
(e) if you think the inference is 'definitely false; i.e. it contradicts the given facts.

 PASSAGE-I
The conversion of desert land into fertile land has led to phenomenal appreciation in land value and the widespread Greenfields arc the growing indication of visible prosperity. A number of man dies have sprung .up facilitating disposal of farm produce. A large number of agro-based industries have come up and allied activities like opening of banks, insurance companies, warehouses, chilling plants etc are indications of development and growing employment opportunities.
151.   Fertile land has more value than desert land.
152.   Prosperity can be invisible too.
153.   The sale object of mandies is to facilitatedisposal of farm produce.   .
154.   Converting desert land into fertile land may lead to growth in employment.
155.   The government is vigorously pursuing the conversion of desert land into fertile land.

PASSAGE-II
We need to concede in all honesty that India would not be in the mess in which it finds itself today had we the good sense to go by the Mahatma's wise and earthy advice. Sadly, bur ruling classes still prefer western ideas and ideologies. They unwisely ignore our background, temperament and genius-and the fact that over the past few decades some of the top thinkers .of the west like Toynbee. Priestly, Rostow, Galbraith and Myrdal have not merely appreciated Gandhi's ideas but veered round to his view that nations are not built with brick and mortar or the Gross National P:oduct but by the quality and character of its people. Further, that the "quality of life" is more important than continuous growth in GNP or high consumption.
156.   The Westerners believe that a nation's worth is determined by its GNP.

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157. The Indian masses are not influenced by western .ideas.
158. Gandhi believed in spiritual rather than material development.
159. Myrdal is an advocate of consumerist culture.
160. Things are fine in India.

Directions (Qs. No. 161 to 165): In each question below, there are two statements followed by four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusions logically follow(s) from the given statements.

161. Statements: All birds are books.
                All books are quarters.
     Conclusions: I. All birds are quarters.
                  II. Some quarters are birds.
                  III. Some quarters are books.
                  IV. Some books are birds.
(a) I, II and III follow
(b) II, III and IV follow
(c) I, III and IV follow
(d) I, II and IV follow
(e) All follow

162. Statements: Some books are novels.
                All novels are dishes.
     Conclusions: I. Some books are dishes.
                  II. Some books are not dishes.
                  III. Some dishes are novels.
                  IV. Some dishes are not novels.
(a) Either I or II follows
(b) Either IIIor IV follows
(c) Either lor II, and III or IV follow
(d) I and III follow
(e) Can't say

163. Statements: Some desks are pens.
                No pens is a paper.
     Conclusions: I. Some desks are papers.
                  II. Some desks are not papers.
                  III. No desk is paper,
                  IV. No paper is a pen.
(a) Only II and IV follow
(b) Either I or II follows
 (c) Either I or III follows
(d) Only II and III follow
(e) Only II, III and IV follow

164. Statements: All boys are girls.
                No books are boys.
     Conclusions: I. Some books are girls.
                  II. Some books are not girls.

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III. Some girls are books.
IV. Some girls are not books.
(a) Either I or II follows
(b) Either III or IV follows
(c} Only II and IV follow
(d) Either I or II, and IV follow

165.   Statements: All books are pens.
                          All books are tigers.
        Conclusions: I. Some pens are books.
                          II. Some pens are tigers.
                          III. Some tigers are pens.
                          IV. Some pens are not tiger.
(a) Only I and III follow
(b) Onlyll and III follow
(c) Only I follows
(d) I, II and III follow
(e) I and either II or IV follow

Directions (Qs.166 to 170): An arrangement machine when an input line of words, rearranges them following a particular rule in each step. The following is the illustration of the input and the steps of arrangement:
Input: The lose as supply right will man
Step I: As the lose supply right will man
Step II: As man the lose supply right will
Step III: As man the lose will supply right
Step IV: As man the lose will right supply
Study the logic followed and answer the questions that follow.

166.   Input: With his government facing a crisis.
             What will be the 3rd step for this input?
(a) A crisis facing with his government
 (b) A his with facing government crisis
(c) With his government facing a crisis
(d) A his with crisis government facing
(e) None of these

167.   In how many steps can, the following input be rearranged?
         Input: On coming to power early last year
         (a) 1   (b) 2
         (c) 3   (d) 4
         (e) 5

168.   What will be the 2nd step of the following input?
         Input: Bankers exectations were running high today.
(a) Bankers expectations high were running today.
(b) High were bankers expectations running today.
(c) High bankers expectations were running today.   .
(d) Bankers expectations high running were today.
(e) None of these

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169.   Which of the following inputs will take the maximum number of steps for rearranging? '
(a) Key policy statements next week will contain
(b) Measures to speed the now to credit
(c) The country's ailing infrastructure sector
(d) Bottlenecks caused by power shortage transport
(e) One of the main reasons for growth

170.   "Are into banks mainly capital working financing" is the 3rd step fat which of the following inputs?
(a) Mainly banks are into .working capital financing
(b) Banks are mainly into working capital financing
(c) Mainly banks are working financing into .capital
(d) Into banks are mainly capital working financing
(e) None of these

Directions (Qs, 171 to 175): In the following questions, the symbols a, a~, B, B ~ and B aroused as follows:

A < B means A is greater than B.
A <- B means A is greater than or equal to B.
 A > B means B is greater than A.
A >- B means B is greater than or equal to A.
A« B means A is equa1 to B.

171.   Statements: P <- Q, >- R, R <-> T
          Conclusions: 1. P <- R
                           II. P > R

172.   Statements : N<- > M, C< N, M <- > D
          Conclusions: I. C<D
                           II. N <- > D
173.   Statements : Q > L, Q <- R, T > P
          Conclusions: 1. . L <- P
                            II. R > L
174.   Statements : X >- Y, Y, <- > Z, A < Z
          Conclusions: 1. X < Z
                            n. Y<-A
175.   Statements : S > T, S<M, M <- > P ,
          Conclusions: 1. S<P
                            n. T > M

Directions (Qs. 176 to 180): The questions below consist of questions followed by two statements labelled I and II. You have to decide if these statements are sufficient to answer the question. Give answer
(a) if statement I alone is sufficient to answer the question but statement II alone is not sufficient to answer the question;
(b) if statement II alone is sufficient to answer the question but statement I alone is not sufficient to answer the question;
(c) if you can get the answer from I and II together although neither statement sufficient by itself;
(d) if statement I alone is sufficient and statement II alone is sufficient: and'
(e) if you cannot get the answer from statements I and II together but still more data are needed.

176.   Will India win the next series against Pakistan?
          Statements: 1. In the Ist seven series India has won four and Pakistan three.
                    II.   Every time one side wins a series, the next is a leveller.

177.   What was the date on the last Sunday of Jan 1997?
          Statements: 1. The month's first Sunday fell on the 5th.
                    II. The last day of the month was a Friday.

178.   If Kahi De duf means "Listen to me", then which word stands for me?
          Statements: 1. Zip ley duf stands for "Listen his word".
                    II. Pe Zip num stands for "to his surprise".

179.   Sadhu is older than Krishna. Pragati is younger than Ashu. Who among them is the youngest?
          Statements : 1. Krishna is older than Pragati.
                     II. Ashu is younger than Krishna.

180.   What is the ratio between boys and girls in class?
          Statements: 1. One-fourth of the students consists of girls.
                    II. There are 60 students in all.

Directions (Qs. No. 181 to 185): In each questions below is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Give answer (a) if only assumption I is implicit; (b) if only assumption II is implicit; (c) if either lor II is implicit; (d) if neither I nor II is implicit; and (e) if both I and II are implicit.

181.   Statement: It is high time the RBI took a look at infrastructure lending by commercial banks.
Assumptions:
        I. Infrastructure lending is the best service commercial banks can provide.
        II. Under the RBI's supervision infrastructure lending is an important job of commercial banks.

182.   Statement: By wining the Booker Prize, Arundhati Roy gives Indian writing in English global acceptance.
Assumptions:
        I.Booker prize -is a sign of recognition for English writing.
        II. Indian writing in English has come of age.

183.   Statement: Indians are no longer aghast when they come across stories of corruption.
Assumptions:
        1. Earlier, corruption caine to Indians as shock.
        II. Corruption is not a new phenomenon.

184.   Statement: The people promoting aides to hedonistic activities are far more dangerous than our external enemies.
Assumptions:
        1. Our external enemies are not dangerous.

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II. Hedonistic activities can't be performed without aids.

185. Statement: The Indian cricket team trounced Pakistan 4-1 in Toronto to lift the Sahara Cup.
Assumptions:
    1.Both India and Pakistan participated in the Sahara Cup.
    II. Only India and Pakistan participated in the Sahara Cup.

186. If it is possible to make a meaningful word using the second, fourth, fifth and seventh letters of the word CAPITALIST, write down the third letter of this word. If no meaningful word is possible, mark X as your answer. If more than one such word is possible, mark M as your answer.
    (a) S   (b) M
    (c) X   (d) L
    (e) I

187. You are given three primary colours red, blue and yellow . Now combine these colours and you get the secondary colours. Again, combine these colours (primary + Second as well as secondary + secondary)' and you get the tertiary colours. How many colours do you have in all now? (By combining is meant bringing two colours together).
    (a) 27   (b) 15
    (c) 18   (d) 21
    (e) 24

188. Binod's son is the son-in-law of Achyut's father. Rani is Achyut's only sister. Binod has only one grandson Pramod. How is Pramod related to Rani?
    (a) Father   (b) Uncle
    (c) Son   (d) Brother
    (e) Nephews

189. Ajit is fatter than Ranjit who is thinner than Bhushan. Mohan is thinner than Ajit but fatter than Bhushan. Two other men are fatter than Ajit. Who is the thinnest?
    (a) Ajit   (b) Ranjit
    (c) Bhushan   (d) Mohan
    (e) None of these

190. If - is written as x, x as 7, + as -, and» as +, find the value of 18 x 9 7 2 - 36 + 6
    (a)SI   (b) 36
    (c) 18   (d) 11
    (e) 16

Directions (Qs, 191 to 195): A statement is given followed by three courses of action. A course of action is taken for improvement, follow-up etc. Read the statement carefully and pick the correct answer choice.
191. Statement: Industrial output has grown remarkably over the last year.
Courses of Action:
1. The government should now shift its focus to agriculture,
II. Some of the industries should be closed.
III. Efforts should be made to market the output across the world.
(a) Only III follows
(b) Only I and II follow
(c) Only I follows
(d) Only I and III follow

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(e) Only II follows

192.   Statement: Skoda, a Czech company, plans to set up a car-manufacturing plant in Maharashtra.
Courses of Action:
1.   Its proposal should be given a patient hearing.
II.   A survey should be conducted to assess whether demand for its car exists here.
III.   Skoda should be shown the door because it is a foreign company.
        (a) Only III follows   (b) Only I follows
        (c) None follows   (d) Only I and II follow
         (e) Only II and III follow

193.   Statement: Uttar Pradesh's mineral wealth largely .remained untapped due to the lack. of any coherent policy.
Courses of Action:
1.   A mineral policy should be formulated by the Uttar Pradesh government.
II.   An institute of mining should be set up in the state.
III. The mineral wealth should be left untapped, or else the state will not have mineral water.
(a) Only II follows
(b) Only III follows
(c) All follow
 (d) None follows
(e) Only I follows

194.   Statement: We are among the top of the list of most corrupt countries in the world.
Courses of Action:
1.   The army should take over the reins of the government.
II. Moral values should be inculcated among the children at school.
III. Corruption is a universal phenomenon and. should therefore not be given much thought to.
 (a) Only II follows
(b) Only I follows
(c) Only I and III follow
(d) Only III follows
(e) None follows

195.   Statement: The younger generation is indifferent towards the elderly.
Courses of Action:
1. There should be policy for the aged.
II.   The government should give incentives such. as tax savings to the families supporting the elderly.
III. More old-age houses should be opened.
(a) Only III follows
(b) Only I follows
(c) Only I and III follow
(d) None follows
(e) All follow

Directions (Qs, 196 to 200): These questions are based on the following sequence:
N T X a 2 A K S b Z M P L 3 V g C D I E B d Q

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196. If the first half of the series is reversed, which character would be 9th to the right of 15th from the right?
     (a) A   (b) K
     (c) C   (d) g
     (e) D

197. What would be the answer to Q. 196 if the second half was reversed instead of the first?
     (a) A   (b) K
     (c) g   (d) C
     (e) D

198. Which character is midway between the 3rd character from left and 16th from right?
     (a) A   (b) S
     (e) K   (d) M
     (e) None of these

199. Complete the sequence 'given below:
Ta2   aSZ   APV   _____
(a) SER   (b) aço
(e) Syl   (d) VRI
                   (e) aB Q

200. What would be the answer to Q. 198 above if the digits and Greek letters were dropped from the series?
(a) D   (b) C   (c) g   (d) K   (e) A

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