BANK OF INDIA OFFICERS EXAM

Exam Held On : 24-01-2010

REASONING ABILITY

1. How many such pairs of digits are there in the number 531468 each of which has as many digits between them in the number as when the digits are rearranged in descending order within the number?
   (1) None
   (2) One
   (3) Two
   (4) Three
   (5) More than three

2. In a certain code SAGE is written as '4169' and PERT is written as '7928'. How is STEP written that code?
   (1) 4897
   (2) 4987
   (3) 4197
   (4) 4387
   (5) None of these

3. Pointing to a girl, Subodh said "She is the daughter of my mother's only brother". How is Subodh related to the girl?
   (1) Cousin brother
   (2) Maternal uncle
   (3) Brother
   (4) Data inadequate
   (5) None of these

4. In a certain code CONQUER is written as MNBRQDT. How is STEAMER written in that code?
   (1) DRSBQDL
   (2) DSRBLDQ
   (3) DSRZQDL
   (4) DSRBQDL
   (5) None of these

5. The positions of the first and the fifth digits in the number 83241957 are interchanged. Similarly the positions of the second and the sixth digits are interchanged and so on. Which of the following will be the third from the right end after the rearrangement?
   (1) 1
   (2) 2
   (3) 9
   (4) 3
   (5) None of these

6. The positions of how many digits in the number 5321648 will remain unchanged after the digits are rearranged in ascending order within the number?
   (1) None
   (2) One
   (3) Two
   (4) Three
   (5) More than three

7. In a row of twenty students, R is fifth from the right end and T is fourth from the left end. How many students are there between R and T in the row?
   (1) 11
   (2) 12
   (3) 10
   (4) Cannot be determined
   (5) None of these

8. How many meaningful English words can be made with the letters NLAE using each letter only once in each word?
   (1) None
   (2) One
   (3) Two
   (4) Three
   (5) More than three

9. If '+' means '÷'; '−' means '×'; '÷' means '−' and 'x' means '+', then—
   $14 - 4 \times 7 + 12 + 8 = ?$
   (1) 20
   (2) 12
   (3) $5\frac{1}{11}$
   (4) 8
   (5) None of these

10. Among A, B, C, D and E each having a different amount of money, C has more money than only E, B and A. Who among them has the highest amount of money?
    (1) C
    (2) D
    (3) E
    (4) Data inadequate
    (5) None of these

11. How many such pairs of letters are there in the word PERFORATE each of which has as many letters between them in the word as in the English alphabet?
    (1) None
    (2) One
    (3) Two
    (4) Three
    (5) More than three

12. In a certain code language, 'Monday is a holiday' is written as 'sa da pa na' and 'they enjoy a holiday' is written as 'da na ta ka'. How is 'Monday' written in that code language?
    (1) sa
    (2) pa
    (3) sa or pa
    (4) Data inadequate
    (5) None of these

13. 'BF' is related to 'IM' in the same way as 'HL' is related to —
    (1) PT
    (2) NR
    (3) OR
    (4) OS
    (5) None of these

14. Nikhil walked 30 metres towards East, took a left turn and walked 20 metres. He again took a left turn and walked 30 metres. How far and in which direction is he from his starting point?
    (1) 20 metres North
    (2) 80 metres North
    (3) 20 metres South
    (4) 80 metres South
    (5) Data inadequate

15. What should come next in the following number series?
    9 1 8 2 7 3 6 4 5 9 1 8 2 7 3 6
    5 9 1 8 2 7 3 5 9 1 8 2 7
    (1) 3
    (2) 1
    (3) 5
    (4) 8
    (5) None of these

Directions (16–18) : Following questions are based on the five three-digit numbers given below.

813 479 564 385 792

16. If the positions of the first and the second digits within each number are interchanged, which of the following will be the lowest number?
    (1) 813
    (2) 479
    (3) 564
    (4) 385
    (5) 792

17. Which of the following is the second digit of the second lowest number?
    (1) 1
    (2) 7
    (3) 6
    (4) 8
    (5) 9

18. Which of the following is the sum of the first and the third digits of the second highest number ?

(1) 11   (2) 13
(3) 9   (4) 8
(5) None of these

Directions (19-20) : Study the following information carefully and answer the questions given below:

(i) P × Q means 'P is mother of Q'.
(ii) P + Q means 'P is sister of Q'.
(iii) P ÷ Q means 'P is father of Q'.
(iv) P – Q means 'P is brother of Q'.

19. Which of the following means 'J is paternal grandfather of W' ?

(1) W + T ÷ J   (2) J ÷ T × W
(3) J × T × W   (4) J × T + W
(5) None of these

20. Which of following means 'M is niece of R' ?

(1) M – T + J – R
(2) T + M – K
(3) R – T + M – K
(4) R + T + M + K
(5) None of these

Directions (21 –22) : Study the following arrangement carefully and answer the questions given below :

H 3 R % M A δ K 2 P 5 E © N 4
W © F & Q ↓ U V 9 J I D 7 8

21. How many such numbers are there in the above arrangement, each of which is immediately preceded by a consonant and also immediately followed by a consonant ?

(1) None   (2) One
(3) Two   (4) Three
(5) More than three

22. What should come next in the following series based on the above arrangement ?

3%M   KPS   NW©   ?

(1) ★1U   (2) Q1V
(3) QUV   (4) QU9
(5) None of these

23. If all the symbols are dropped from the above arrangement, which of the following will be the eleventh from the right end ?

(1) Q   (2) F
(3) N   (4) 4
(5) None of these

24. Which of the following is the sixth to the left of the fourteenth from the left end of the above arrangement ?

(1) 2   (2) 1
(3) U   (4) K
(5) None of these

25. How many such numbers are there in the above arrangement, each of which is immediately preceded by a consonant and immediately followed by a symbol ?

(1) None   (2) One
(3) Two   (4) three
(5) More than three

Directions (26 – 30) : In each of the questions below are given four statements followed by three conclusions numbered I, II and III. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

26. Statements :

Some pens are tables.
All tables are umbrellas.
Some umbrellas are sticks.
All sticks are caps.

Conclusions :

I. Some caps are umbrellas.
II. Some umbrellas are pens.
III. Some sticks are pens.

(1) Only I and II follow
(2) Only I and III follow
(3) Only II and III follow
(4) All I, II and III follow
(5) None of these

27. Statements :

All cheques are notes.
All notes are tyres.
All tyres are books.
All books are rods.

Conclusions :

I. Some rods are notes.
II. Some books are tyres.
III. Some tyres are cheques.

(1) Only I and II follow
(2) Only I and III follow
(3) Only II and III follow
(4) All I, II and III follow
(5) None of these

28. Statements :

Some lanes are poles.
All poles are skies.
Some skies are boxes.
No box is bottle.

Conclusions :

I. Some bottles are lanes.
II. Some boxes are poles.
III. No bottle is lane.

(1) None follows
(2) Only I follows
(3) Only II follows
(4) Only III follows
(5) Only either I or III follows

29. Statements :

All roads are buses.
Some buses are cars.
Some cars are days.
All days are nights.

Conclusions :

I. Some nights are buses.
II. Some nights are cars.
III. Some days are buses.

(1) None follows
(2) Only I follows
(3) Only II follows
(4) Only III follows
(5) Only I and II follow

30. Statements :

Some seeds are flowers.
All flowers are trees.
All trees are leaves.
Some leaves are branches.

Conclusions :

I. Some branches are flowers.
II. Some leaves are seeds.
III. Some leaves are flowers.

(1) Only I and II follow
(2) Only I and III follow
(3) Only II and III follow
(4) All I, II and III follow
(5) None of these

Directions (31 – 35) : Study the following information carefully and answer the questions given below :

P, Q, R, S, T, V, W, Y and Z are sitting around a circle facing the centre. V is second to the left of P who is third to the left of Y. S is fourth to the left of P. T is third to the right of Q who is to the immediate right of V. W is fourth to the right of Z.

31. In which of the following combinations is the first person sitting in between the second and the third persons ?

(1) RSZ   (2) YTW
(3) WPQ   (4) VZQ
(5) PQV

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32. Who is second to the right of Z ?
(1) Q (2) P
(3) W
(4) Data inadequate
(5) None of these

33. In which of the following pairs is the first persons sitting to the immediate right of the second person ?
(1) VQ (2) ZV
(3) SZ (4) RS
(5) YT

34. Who is third to the left of S?
(1) Y (2) W
(3) T
(4) Data inadequate
(5) None of these

35. Who is third to the right of W ?
(1) S (2) R
(3) V (4) Z
(5) Data inadequate

Directions (36 – 40) : In each question below is given a letter group followed by four combinations of digits/symbols numbered (1), (2), (3) and (4). You have to find out which of the combinations correctly represents the group of letters based on the following coding system and the conditions that follow and mark the number of that combination as your answer. If none of the combinations correctly represents the group of letters, mark (5) i.e. 'None of these' as your answer.

Letter	R	D	E	K	A	F	H	I	U	B	M	Z	W	J
Digit Symbol Code	7	1	★	2	%	3	8	©	4	@	9	5	6	$

Conditions :
(i) If the first and the third letters are vowels both are to be coded as the code for the third letter.
(ii) If the first and the fourth letters are consonants, both are to be coded as the code for the first letter.
(iii) If the letter is a vowel and the last letter is a consonant, their codes are to be interchanged.

36. UZMKEF
(1) 3592★4 (2) 4592★3
(3) 4594★3 (4) 9592★3
(5) None of these

37. HIREBW
(1) 8©78©6 (2) 7©7★©6
(3) 8©7★©6 (4) 6©7★©8
(5) None of these

38. JEIFMR
(1) 8©©397 (2) 7©©398
(3) 8©$397 (4) 3©©697
(5) None of these

39. DEKRBJ
(1) 7★27©$ (2) 1★21©$
(3) 8★27©1 (4) 1★27©$
(5) None of these

40. EBAJWU
(1) ★@%$64 (2) 4@%$6★
(3) ★@★$64 (4) %@%$64
(5) None of these

Directions (41 – 45) : Study the following information carefully and 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 in each step. The following is an illustration of input and rearrangement.

Input : rose petal 29 32 86 goal 41 toll

Step I : 29 rose petal 32 86 goal 41 toll

Step II : 29 toll rose petal 32 86 goal 41

Step III : 29 toll 32 rose petal 86 goal 41

Step IV : 29 toll 32 rose 41 petal 86 goal

41. Input : man 79 over 63 like 43 joy 15
How many steps will be required to complete the rearrangement ?
(1) Six (2) Seven
(3) Eight (4) Nine
(5) None of these

42. Step II of an Input: 27 world go 57 48 stem 35 kite
How many more steps will be required to complete the rearrangement ?
(1) Five (2) Four
(3) Three (4) Six
(5) None of these

43. Input : 94 join for 81 style home 32 48
Which of the following steps will be the last ?
(1) VI (2) V
(3) VII (4) IX
(5) None of these

44. Step III of an Input : 18 tower 38 basket 82 76 hall new
Which of the following steps will be step VII ?

(1) 18 tower 38 hall 76 new basket 82
(2) 18 tower 38 new 76 hall 82 basket
(3) 18 tower 38 hall 76 new 82 basket
(4) There will be no such step
(5) None of these

45. Step III of an Input is : 15 yes 24 80 today never go 59
Which of the following will definitely be the input ?
(1) 24 80 today never go 59 15 yes
(2) 24 80 today yes never go 59 15
(3) 24 15 yes 80 today never go 59
(4) Cannot be determined
(5) None of these

Directions (46 – 50) : In the following questions, the symbols δ, ★, %, @ and # are used with the following meaning as illustrated below :

'A % B' means 'A is neither greater than nor equal to B'.

'A # B' means 'A is neither smaller than nor equal to B'.

'A δ B' means 'A is neither smaller than nor greater than B'.

'A ★ B' means 'A is not smaller than B'.

'A @ B' means 'A is not greater than B'.

Now in each of the following questions assuming the given statements to be true, find which of the three conclusions I, II and III given them is/are definitely true and give your answer accordingly.

46. Statements : M # R, R % P, P δ J
Conclusions :
I. M # P II. J # R
III. J % M
(1) None is true
(2) Only I is true
(3) Only II is true
(4) Only III is true
(5) Only II and III are true

47. Statements: P ★ D, D # Q, Q @ R
Conclusions :
I. Q % P II. R # D
III. P # D
(1) None is true
(2) Only I is true
(3) Only II is true
(4) Only III is true
(5) None of these

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48. Statements : T%M, M@K, K★F

Conclusions :

I. F % M

II. F % T

III. K # T

(1) Only III is true

(2) Only II is true

(3) Only I is true

(4) Only II and III are true

(5) All I, II and III are true

49. Statements : H@K, KδN, N%T

Conclusions :

I. T # K

II. N δ H

III. H % N

(1) Only I is true

(2) Only II is true

(3) Only III is true

(4) Only either II or III is true

(5) Only either II or III and I are true

50. Statements : FδD, D★K, K#M

Conclusions :

I. M % D

II. K @ F

III. F # M

(1) Only I and II are true

(2) Only I and III are true

(3) Only II and III are true

(4) All I, II and III are true

(5) None of these

Directions (51– 60) : Study the following information carefully and answer the questions given below :

Following are the conditions for selecting Trainee Officers in an organisation :

The candidate must—

(i) be a graduate in any discipline with at least 55 per cent marks.

(ii) have secured at least 60 per cent marks in the XII Std. examination.

(iii) be at least 22 years and not more than 29 years as on 01.01.2010.

(iv) have secured at least 40 per cent marks in the selection examination.

(v) have secured at least 50 per cent marks in the personal interview.

(vi) be ready to sign a bond for two years.

In the case of a candidate who satisfies all the conditions except-

(a) as (i) above, but is a qualified Cost Accountant/Chartered Accountant, the case is to be referred to ED.

(b) at (v) above, but has secured at least 60 per cent marks in the selection examination, the case is to be referred to Chairman.

In each question below are given details of one candidate. You have to take one of the following courses of actions based on the information provided and the conditions and sub-conditions given above and mark the number of that course of action as your answer. You are not to assume anything other than the information provided in each question. All these cases are given to you as on 01.01.2010.

Mark answer (1) if the candidate is to be selected.

Mark answer (2) if the candidate is not to be selected.

Mark answer (3) if the case is to be referred to ED.

Mark answer (4) if the case is to be referred to Chairman.

Mark answer (5) if the data provided are not adequate to take a decision.

51. Susan D'Souza has secured 62 per cent marks in XII Std. and 59 percent marks in B.A. She was born on 15th July, 1984. She has secured 50 percent marks in both the selection examination and personal interview. She is ready to sign bond for two years.

52. Archana Sahu was born on 8th May 1986. She has secured 60 percent marks in both XII Std. and B.Sc. She is ready to sign bond for two years. She has secured 40 percent marks in the personal interview and 50 per cent in the selection examination.

53. Sudhakar Bagchi was born on 4th November 1982. He has secured 67 percent marks in XII Std. and 50 per cent marks in graduation. He has also successfully qualified as Chartered Accountant. He has secured 50 per cent marks in both the selection examination and personal interview. He is ready to sign bond for two years.

54. Abhinav Shukla has secured 70 percent marks in XII Std. and 58 percent marks in B.Com. He was born on 15th September, 1984. He has secured 65 percent marks in the selection examination and 48 percent marks in the personal interview. He is ready to sign bond for two years.

55. Atul Garg was born on 2nd December 1980. He has secured 56 percent marks in B.Sc. and 63 percent mark in XII Std. He has also secured 55 percent marks in both the selection examination and personal interview. He is ready to sign bond for two years

56. Meena Gogoi was born on 14th March 1985. She has secured 62 percent marks in XII Std. and 65 per cent marks in the selection examination. She has also secured 58 percent marks in graduation and 48 per cent marks in personal interview. She is ready to sign bond for two years.

57. Navin Malhotra was born on 3rd August, 1987. He has secured 68 per cent marks in XII Std. and 50 per cent marks in B.A. He has secured 50 percent marks in personal interview and 40 per cent marks in the selection examination. He is a qualified Cost Accountant. He is ready to sign bond for two years.

58. Ashok Pradhan has secured 56 percent marks in graduation and 63 percent marks in XII Std. He was born on 12th December, 1986. He has secured 45 per cent marks in the selection examination and 55 per cent marks in the personal interview.

59. Suresh Das is ready to sign bond for two years. He is first class graduate in science. He has secured 50 per cent marks in personal interview and 40 percent marks in the selection examination. He was born on 25th April, 1982. He got ten percent more marks than his friend in XII Std.

60. Antara Ghosh was born on 2nd December 1981. She has secured 60 percent marks in both the selection examination and personal interview. She has secured 62 percent marks in XII Std. and 57 percent marks in B.Sc. She is ready to sign bond for two years.

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A, B, C, D, E, F, G and H are eight persons working in three different departments viz. Operations, Sales and Finance of an organisation with at least two and not more three in any department. They are in three different scales viz. I, II and III with at least two in any one scale.

Both the employees in Operations departments are in Scale II. D works in Sales department and belongs to Scale I. A works in Finance departments and does not belong to Scale I. Two employees in Sales department belong to one scale. F works with only H in one of the departments. C works with E in one of the departments. B does not work with either C or A in the same department. G does not belong to Scale III. E does not belong to Scale I.

61. Which of the following combinations is correct ?
    (1) Operation – F – I
    (2) Operation – H – III
    (3) Sales – B – II
    (4) Finance – E – III
    (5) All are correct

62. Which of the following groups of employees work in sales department ?
    (1) DBE   (2) DBC
    (3) DBG
    (4) Data inadequate
    (5) None of these

63. H belongs to which scale ?
    (1) I   (2) II
    (3) III
    (4) Data inadequate
    (5) None of these

64. G belongs to which scale ?
    (1) II   (2) III
    (3) I   (4) I or II
    (5) None of these

65. C belongs to which scale ?
    (1) I   (2) II
    (3) III   (4) I or II
    (5) None of these

Directions (66 – 70) : Below is given a passage followed by several possible inferences which can be drawn from the facts stated in the passage. You have to examine each inference separately in the context of the passage and decide upon its degree of truth or falsity.

Mark answer (1) if the inference is 'definitely true', i.e. it properly follows from the statement of facts given.

Mark answer (2) if the inference is 'probably true' though not 'definitely true' in the light of the facts given.

Mark answer (3) if the 'data are inadequate', i.e. from the facts given you cannot say whether the inference is likely to be true or false.

Mark answer (4) if the inference is 'probably false', though not 'definitely false' in the light of the facts given.

Mark answer (5) if the inference is 'probably false', i.e. it cannot possibly be drawn from the facts given or it contradicts the given facts.

Coal and power are the mainstays of India's energy sector. Coal is the country's backbone of energy supply and is likely to continue playing a significant role in meeting energy demands. It accounts for over 50 per cent of the commercial energy requirements in the country. Despite reported figures of a relatively large coal resource compared with other fossil fuels, the country has been facing shortages from time to time. Projections for coal by various study groups show an increasing gap between the demand and supply of domestic coal, which may result in increased imports. Moreover, the country's resources are often overstated as assessment process does not consider the quality, technical feasibility and economic viability of coal mining and exploration.

66. India's coal mines and mining activities are commercially viable.

67. The coal mines of the developed countries generate more profits than those in India.

68. Assessment process of coal reserves is not capable of identifying coal reserves accurately.

69. India's dependence on coal for generating energy will continue in the time to come.

70. India's coal reserves are much more than its requirement.

Directions (71 – 75) : In each question below is given a statement followed by two courses of action numbered I and II. A course of action is a step or administrative decision to be taken for improvement, follow-up or further action in regard to the problem, policy, etc. On the basis of the information given in the statement, you have to assume everything in the statement to be true, then decide which of the suggested courses of action logically follow(s) for pursuing.

Mark answer (1) if only Course of action I follows.

Mark answer (2) if only Course of action II follows.

Mark answer (3) if either Course of action I or Course of action II follows.

Mark answer (4) if neither Course of action I or Course of action II follows.

Mark answer (5) if both Course of action I and Course of action II follow.

71. **Statement :** Many school children dies in few accidents caused due to poor maintenance of school buses during the last few months.
    Courses of action :
    I. The government should set up an expert group to inspect the condition of school buses to avoid such accidents.
    II. The government should suspend the licence of all the school buses till these buses are properly checked.

72. **Statement :** Many customers complained to the manager of the local branch of the bank against the highhandedness of the bank employees while dealing with the customers.
    Courses of action :
    I. The bank management should immediately suspend all the employees of the branch and deploy a different set of employees.
    II. The bank management should ask for a report from the manager of the branch for taking necessary steps.

73. **Statement :** Two persons, while on their daily walks in the jogger's park were killed by unidentified miscreants early in the morning.
    Courses of action :
    I. The police authority should deploy police constables near the jogger's park to prevent such criminal acts in future.
    II. The citizens of the locality should go for early morning walks in groups to avoid such attacks.

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74. **Statement** : A huge oil tanker overturned on the highway leading to the state capital and blocked most part of the highway from vehicular traffic.

Courses of action :

I. The government should immediately constitute a high level enquiry committee to look into the matter.

II. The driver of the oil tanker should immediately be arrested.

75. **Statement** : A very large number of recently recruited officers left the Bank after attending the training programme on branch Banking operations conducted by the bank.

Courses of action :

I. The bank should take a bond of at least two years from each newly recruited officers before putting them into the training programme.

II. The bank should conduct the training programme at least one year after the newly recruited officers joined the bank.

Directions (76-80) : In each question 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 (1) if only Assumption I is implicit.

Give answer (2) if only Assumption II is implicit.

Give answer (3) if either Assumption I or Assumption II is implicit.

Give answer (4) if neither Assumption I nor Assumption II is implicit.

Give answer (5) if both Assumptions I and II are implicit.

76. **Statement** : The cricketing body decided to hold the final match of the tournament in the biggest stadium of the country which can accommodate above one lakh spectators.

Assumptions :

I. Most of the tickets may be sold resulting into huge income for the cricketing body.

II. Most of the spectators may prefer to watch the match on TV at their homes rather than going to the stadium.

77. **Statement** : The local hospital put up a notice board at the main entrance stating that the hospital will carry out free check up for detecting cancer for people staying in the locality.

Assumptions :

I. Large number of people living in the locality may avail the free check up facility offered by the hospital.

II. Hospital staff deployed for the purpose may be able to cope up with the rush of people for check up.

78. **Statement** : The government has decided to distribute 3 kgs. of food-grains to every family living below poverty line for the next three months at a nominal price of Rs. 5 per kg.

Assumptions :

I. The government has enough stock to distribute foodgrains for the entire period.

II. Families living below poverty line may be able to afford to buy foodgrains at Rs. 5 per kg.

79. **Statement** : The government has recently advised all the public sector banks to reduce rate of interest on home loans upto Rs. 25 lakhs.

Assumptions :

I. The public sector banks may reduce the interest on all home loans upto Rs. 25 lakhs.

II. People may take undue advantage of the government's decision.

80. **Statement** : The civic body put up a huge notice board on the bench located at an isolated part of the city as "Many picknickers died while swimming in the sea during the past few months".

Assumptions :

I. Picknickers may ignore the notice and continue venturing into the sea.

II. Picknickers may read and be careful while venturing into the sea.

Directions (81-85) : Below in each question are given two statements (A) and (B). These statements may by either independent causes or may be effects of independent causes or a common cause. One of these statements may be the effect of the other statement. Read both the statements and decide which of the following answer choices correctly depicts the relationship between these two statements.

Mark answer (1) if statement (A) is the cause and statement (B) is its effect.

Mark answer (2) if statement (B) is the cause and statement (A) is its effect.

Mark answer (3) if both the statements (A) and (B) are independent causes.

Mark answer (4) if both the statements (A) and (B) are effects of independent causes.

Mark answer (5) if both the statements (A) and (B) are effects of some common cause.

81. (A) Majority of the students of the school passed in Mathematics in the annual examination.

(B) Majority of the students of the school failed in English in the annul examination.

82. (A) A huge explosion rocked the housing complex as a cooking gas cylinder exploded in one of the flats in the complex.

(B) Residents of the housing complex came running out of their houses and assembled in the open courtyard.

83. (A) Three top players of the Indian cricket missed all the matches of the five match tournament due to injury.

(B) India lost the cricket tournament to the visitors with a 2 : 3 margin.

84. (A) The municipal authority advised all the schools in the city to close down for the next two days.

(B) A huge storm is likely to hit the city during the next two days.

85. (A) The prices of foodgrains have increased by about 20 per cent over the same period last year.

(B) The prices of vegetables have substantially decreased during the past few weeks.

Directions (86– 100) : In each of the questions given below which one of the five answer figures on the right should come after the problem figures on the left, if the sequence were continued ?

Problem Figures — **Answer Figures**

86.

87.

88.

89.

90.

91.

92.

93.

94.

95.

96.

97.

98.

99.

100.

(1) (2) (3) (4) (5)

QUANTITATIVE APTITUDE

Directions (101–105) : What will come come in place of the question mark (?) in the following questions ?

101. 14% of 250 × ?% 150 = 840
(1) 15
(2) 18
(3) 16
(4) 12
(5) None of these

102. $(?)^3 = 729$
(1) 14
(2) 7
(3) 19
(4) 11
(5) None of these

103. 15.4 × 13.5 × ? = 2598.75
(1) 13.4
(2) 10.5
(3) 11.4
(4) 12.5
(5) None of these

104. 6435.9 + 7546.4 + 1203.5 = ?
(1) 15188.5
(2) 15185.8
(3) 15155.5
(4) 15815.8
(5) None of these

105. 4.5 × 437 ÷ 19 = ?
(1) 103.5
(2) 115.3
(3) 105.3
(4) 113.5
(5) None of these

Directions (106–110) : What **approximate** value should come in place of the question mark (?) in the following questions? (Note : You are not expected to calculate the exact value)

106. 8399.999+375.002 × 14.996 = ?
(1) 565
(2) 225
(3) 335
(4) 625
(5) 455

107. $\sqrt{?} = 37.0005$
(1) 1150
(2) 1220
(3) 1570
(4) 1480
(5) 1370

108. 14.996% of 619.999 = ?
(1) 95
(2) 80
(3) 115
(4) 105
(5) 75

109. 11.003 × 19.998 × 9.010 = ?
(1) 1710
(2) 1680
(3) 1800
(4) 1980
(5) 1750

110. 1066.88+1800.08+1880.80 =?
(1) 3950
(2) 4770
(3) 4620
(4) 5040
(5) 6810

Directions (111-115) : What should come in place of the question mark in the following number series ?

111. 5 54 90 115 131 140 ?
(1) 149 (2) 146
(3) 142 (4) 152
(5) None of these

112. 7 4 5 9 ? 52.5 160.5
(1) 32 (2) 16
(3) 14 (4) 20
(5) None of these

113. 6 42 ? 1260 5040 15120 30240
(1) 546 (2) 424
(3) 252 (4) 328
(5) None of these

114. 4 10 40 190 940 ? 23440
(1) 4690 (2) 2930
(3) 5140 (4) 3680
(5) None of these

115. 2 9 30 ? 436 2195 13182
(1) 216 (2) 105
(3) 178 (4) 324
(5) None of these

116. On Republic Day sweets were to be equally distributed among 450 children. But on that particular day, 150 children remained absent. Thus, each child got 3 sweets extra. How many sweets did each child get ?
(1) 6 (2) 12
(3) 9
(4) Cannot be determined
(5) None of these

117. In how many different ways can the letters of the word 'TRUST' be arranged ?
(1) 60 (2) 240
(3) 120 (4) 25
(5) None of these

118. Amit, Sucheta and Neeti start running around a circular track and complete one round in 18, 24 and 32 seconds respectively. In how many seconds will the three meet again at the starting point if they all have started running at the same time ?
(1) 196 (2) 288
(3) 324
(4) Cannot be determined
(5) None of these

119. A basket contains three blue and four red balls. If three balls are drawn at random from the basket, what is the probability that all the three are either blue or red ?
(1) 1 (2) $\frac{1}{7}$
(3) $\frac{3}{14}$ (4) $\frac{3}{28}$
(5) None of these

120. A man buys a single apple for Rs. 25. If he were to buy a dozen apples, he would have to pay a total amount of Rs. 250. What would be the **approximate** per cent discount he would get on buying a dozen apples ?
(1) 32 (2) 20
(3) 12 (4) 8
(5) 17

121. What would be the compound interest accrued on an amount of Rs. 45,400 at the end of two years at the ratio of 15 p.c.p.a. ?
(1) Rs. 16411.5
(2) Rs. 14461.5
(3) Rs. 16461.5
(4) Rs. 14641.5
(5) None of these

122. 6 men can complete a piece of work in 12 days, 8 women can complete the same piece of work in 18 days whereas 18 children can complete the piece of work in 10 days. 4 men, 12 women and 20 children work together for 2 days. If only men were to complete the remaining work in 1 day how many men would be required totally ?
(1) 36 (2) 24
(3) 18
(4) Cannot be determined
(5) None of these

123. What would be the cost of building a fence around a circular field with area equal to 32378.5 sq. metres, if the price per metre for building the fence was Rs. 154 ?
(1) Rs. 84,683
(2) Rs. 86,495
(3) Rs. 79,326
(4) Rs. 98,252
(5) None of these

124. A 320 metre long train takes 80 seconds more to cross a platform twice its length than it takes to cross a pole at the same speed. What is the speed of the train in metre/second ?

(1) 16 (2) 10
(3) 6
(4) Cannot be determined
(5) None of these

125. The present ages of Vishal and Shekhar are in the ratio of 14 : 17 respectively. Six years from now thier ages will be in the ratio of 17 : 20 respectively. What is Shekhar's present age ?
(1) 17 years (2) 51 years
(3) 34 years (4) 28 years
(5) None of these

Directions (126–130) : Study the following pie chart and table carefully to answer the following questions that follow :

Percentage break up of employees working in various departments of an organisation and the ratio of men to women in them
Percentage Break up of employees
Total Number of Employees = 1800
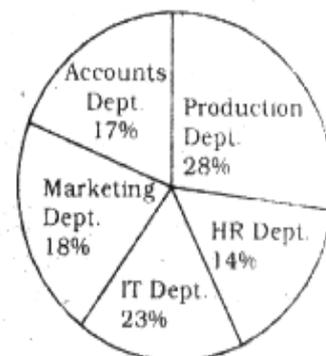
Ratio of Men to Women

Department	Men	Women
Production	11	1
HR	1	3
IT	5	4
Marketing	7	5
Accounts	2	7

126. What is the number of men working in the Marketing department ?
(1) 132 (2) 174
(3) 126 (4) 189
(5) None of these

127. The number of women working in the IT department of the Organisation forms **approximately** what per cent of the total number of employees in the Organisation from all departments together ?
(1) 7 (2) 5
(3) 19 (4) 15
(5) 10

8

128. What is the respective ratio of the number of women working in the HR department of the organisation and the total number of employees in that department?
(1) 3 : 4 (2) 2 : 5
(3) 2 : 9 (4) 3 : 7
(5) None of these

129. What is the respective ratio of the number of men working in the Accounts department to the total number of employees working in that department?
(1) 9 : 2 (2) 7 : 6
(2) 2 : 9 (4) 6 : 7
(5) None of these

130. The number of men working in the Production department of the Organisation forms what per cent of total number of employees working in that department? (rounded off to two digits after decimal)
(1) 89.76 (2) 91.67
(3) 88.56 (4) 94.29
(5) None of these

Directions (131–135) : Study the following table carefully to answer the questions that follow :

Number of units manufactured (in thousands) by six different companies over the years

Company / Year	A	B	C	D	E	F
2004	14.5	13.8	11.6	16.2	13.9	15.1
2005	15.8	14.9	12.4	16.3	14.1	15.2
2006	15.9	14.6	12.7	16.0	15.4	15.5
2007	16.0	15.0	12.9	15.3	15.7	16.1
2008	15.4	15.5	13.8	15.6	16.4	16.7
2009	16.2	16.7	14.9	16.3	16.6	16.7

131. What is the respective ratio of total number of units manufactured by Companies A and B together in the year 2009 to those manufactured by Companies C and D together in the same year?
(1) 312 : 329 (2) 317 : 311
(3) 329 : 312 (4) 311 : 317
(5) None of these

132. The number of units manufactured by Company E in the year 2005 is **approximately**. What per cent of the total number of units manufactured by it in all the years together?
(1) 31 (2) 27
(3) 7 (4) 15
(5) 23

133. What is the average number of units manufactured by Company D in the years 2004 and 2007 together?
(1) 14650 (2) 15750
(3) 13750 (4) 16470
(5) None of these

134. What is the total number of units manufactured by Company C over all the years together?
(1) 783 (2) 7830
(3) 783000 (4) 78.3
(5) None of these

135. What is the per cent increase in the number of units manufactured by Company F in the year 2008 from the previous year? (rounded off to two digits after decimal)
(1) 3.73 (2) 3.62
(3) 4.35 (4) 4.16
(5) None of these

Directions (136–140) : In each of the following questions, a question followed by two statements numbered I and II are given. You have to read both the statements and then

Give answer (1) if the data given in statement I alone are sufficient to answer the question whereas the data given in statement II alone are not sufficient to answer the question.

Give answer (2) if the data given in statement II alone are sufficient to answer the question whereas the data given in statement I alone are not sufficient to answer the question

Give answer (3) if the data in either statement I alone or in statement II alone are sufficient to answer the question

Give answer (4) if the data in both the statements I and II are not sufficient to answer the question

Give answer (5) if the data given in both the statements I and II are necessary to answer the question

136. What is the two digit number?
I. The difference between the two digits of the number is 0.
II. The sum of the two digits of the number is 18.

137. What is Supriya's present age?
I. Supriya is three years older than Priya.
II. The ratio between Priya's and Reshma's age is 3 : 4 respectively.

138. What is the speed of the boat in still water?
I. The boat travels at the speed of 4 km/hr upstream
II. The boat travels at the speed of 6 km/hr downstream.

139. How many marks did Nigam get in Biology?
I. Nigam got 42 marks in English which were half the marks he got in Biology
II. Nigam's marks in Biology were 14 per cent of the total marks he got in all the subjects together

140. What is the rate of interest p.c.p.a. ?
I. An amount of Rs. 6200 fetches simple interest of Rs. 1736 in two years.
II. An amount of Rs. 4500 fetches compound interest of Rs. 1348.2 in two years.

Directions (141–145) : Study the following graph carefully to answer the questions that follow—

Number of students (number in thousands) passing and failing in an Entrance Exam from six different cities

* The total number of students in each city comprises the number of students passing and the number of students failing in the entrance exam.
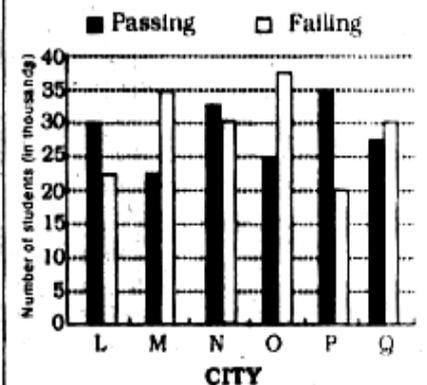
141. What is the respective ratio of number of students passing in the entrance exam from City M to those passing from City Q?
(1) 11 : 7 (2) 9 : 11
(3) 7 : 12 (4) 9 : 5
(5) None of these

142. What is the average number of students failing in the examination from Cities L and M together?

9

(1) 22570 (2) 20180
(3) 21650 (4) 28750
(5) None of these

143. What is the total number of students failing in the entrance exam from all the cities together ?
(1) 175000 (2) 16800
(3) 217500 (4) 168000
(5) None of these

44. Number of students failing in the entrance exam from City P is what per cent of the total number of students from that City ? (rounded off to two digits after decimal)
(1) 29.75 (2) 32.48
(3) 36.36 (4) 27.19
(5) None of these

145. Number of students passing in the examination from City O is **approximately** what per cent of the total number of students passing in the examination from all cities together ?
(1) 4 (2) 26
(3) 21 (4) 9
(5) 14

Directions (146–150) : Study the following table carefully to answer the questions that follow—

Per cent profit earned six companies over the years

Company Year	P	Q	R	S	T	U
2004	11	12	3	7	10	6
2005	9	10	5	8	12	6
2006	4	5	7	13	12	5
2007	7	6	8	14	14	7
2008	12	8	9	15	13	5
2009	14	12	11	15	14	8

146. If the profit earned by Company R in the year 2008 was Rs. 18.9 lakhs, what was the income in that year ?
(1) Rs. 303.7 lakhs
(2) Rs. 264.5 lakhs
(3) Rs. 329.4 lakhs
(4) Rs. 228.9 lakhs
(5) None of these

147. What is the percentage rise in per cent profit of Company T in year 2009 from the year 2004 ?
(1) 42 (2) 35
(3) 26 (4) 48
(5) None of these

148. If the profit earned by Company P in the year 2007 was Rs. 2.1 lakhs, what was its expenditure in that year ?

(1) Rs. 30 lakhs
(2) Rs. 15 lakhs
(3) Rs. 23 lakhs
(4) Rs. 27 lakhs
(5) None of these

149. What was the average per cent profit of Company S over all the years together ?
(1) 13.5 (2) 11
(3) 12 (4) 14
(5) None of these

150. What is the difference between the per cent profit earned by Company Q in the year 2005 and the average per cent profit earned by the remaining Companies together in that year ?
(1) 4 (2) 2
(3) 1 (4) 3
(5) None of these

GENERAL AWARENESS ON CURRENT DEVELOPMENTS

151. All the major world leaders gathered in Berlin in November 2009 to mark the 20th anniversary of
(1) European Union
(2) NATO
(3) Fll of Berlin Wall
(4) G-20
(5) None of these

152. Which of the following issues cannot come under the purview of the functioning of the Human Rights Commission of a country ?
(1) Racial Discrimination
(2) Treatment to Prisoners of War
(3) Human Trafficking
(4) Child Abuse
(5) Climate Migration

153. Many a time we read in the newspapers the RBI has changed or revised a particular ratio/rate by a few basis points. What is basis point ?
(1) Ten per cent of one hundredth point
(2) One hundredth of 1%
(3) One hundredth of 10%
(4) Ten percent of 1000
(5) None of these

154. A prominent international weekly sometime ago printed a caption on its cover page which read "Brazil Takes Off". Other major newspapers/magazines also printed similar stories/articles in their publi-

cations at the time. Why have magazines/newspapers decided to talk about Brazil these days ?
(A) All major economies of the world have been taking time to recover from the recession but Brazil was one of those which was "Last in and First out".
(B) Brazil is a member of BRIC. but unlike China it is a democracy, unlike India, it has no hostile neighbours, no insurgents and unlike Russia it exports more oil and arms and treats foreign investors with more respect.
(C) Brazil is the world's second largest booming economy.
(1) Only A (2) Only B
(3) Only C
(4) All A. B and C
(5) Only A and B

155. The President of the Palestine recently emphasised that his country will not resume peace talks until Israel fully halts settlement building in the
(1) West Bank (2) Haifa
(3) Gaza (4) Tel-Aviv-Yalo
(5) Jerusalem

156. If you see a big hoarding at a prominent public place, the punch line of which says "We All Were Born Free"., "We All Have Equal Rights", in all probability, the hoarding is put up by
(1) National Commission for Farmers
(2) National Human Rights Commission
(3) Directorate of Income Tax
(4) Ministry of Foreign Affairs
(5) Union Public Service Commission

157. Nowadays we frequently read news items about "Derivatives" as used in the world of finance and money market. Which of the following statement(s) correctly describes what a derivative is and how it affects money/finance markets ?
(A) Derivatives enable individuals and companies to insure themselves against financial risk.
(B) Derivatives are like fixed deposits in a bank and are the safest way to invest one's idle money lying in a bank.

(C) Derivatives are the financial instruments which were used in India even during the British Raj.
   (1) Only C   (2) Only B
   (3) Only A
   (4) All A, B and C
   (5) None of these

158. Now almost all major newspapers/journals and magazines are printing research reports giving the analysis and/or the causes of the sub-prime crisis which gripped America and the world a few months back. Which of the following was/were amongst the common cause(s) of the same ? (They were present in almost all the economies).
   (A) The problem was that investors erroneously believed property prices were quite predictable and built a whole edifice of financial planning on the back of the American housing market.
   (B) Credit rating agencies all over the world were not equipped to forecast the effect of subprime crisis on world economy. Agencies were overconfident and did not react in time.
   (C) Neither USA nor other countries took a note of the crisis in time. In fact they ignored it for quite some time.
   (1) Only A   (2) Only B
   (3) Only C   (4) All A, B and C
   (5) Only A and B

159. Amongst the following, which one of the following sectors provides the highest contribution in Industrial Production Index ?
   (1) Crude Oil
   (2) Petro Refinery Products
   (3) Electricity
   (4) Coal
   (5) None of these

160. Which one of the following will be the first High Court in India, to implement the concept of 'e-courts' ?
   (1) Delhi
   (2) Arunachal Pradesh
   (3) Chennai
   (4) Kolkata
   (5) None of these

161. The availability of cash and other cash like marketable instrument that are useful in purchases and investments are commonly known as
   (1) Cash crunch
   (2) Liquidity
   (3) Credit
   (4) Market ability
   (5) None of these

162. Expand the term of NREGA
   (1) National Rural Employment Guarantee Agency
   (2) National Rural Electrification Governing Agency
   (3) National Rural Employment Guarantee Act
   (4) New Rural Employment Guarantee Agency
   (5) None of these

163. Amongst the following sectors, which sector/segment has shown the highest per cent growth in the current fiscal ?
   (1) Mining
   (2) Manufacturing
   (3) Electricity, gas and water supply
   (4) Banking and Finance
   (5) None of these

164. In which one of the following countries, was the recent Commonwealth Meet (CHOGAM) held ?
   (1) Trinidad   (2) Canada
   (3) Australia   (4) Jamaica
   (5) United Kingdom

165. Which one of the following decisions taken by the RBI will promote the concept of financial inclusion in the country ?
   (1) To appoint some additional entities as business correspondents
   (2) To collect reasonable service charges from the customer in a transparent manner for providing the services
   (3) To ask the banks to open at least 50 new accounts daily in non serviced areas
   (4) Only (1) and (2)
   (5) None of these

166. The Rajaya Sabha has recently cleared the new poll bill. Which one of the following amendment(s) is/are made in this bill ? It has proposed

   (1) increasing the security deposits to more than double
   (2) restricting the publication of exit polls
   (3) ensuring speedy disposal of electoral disputes
   (4) Only (1) and (2)
   (5) All (1), (2) and (3)

167. Which of the following countries has conferred the honour of "Legion d' honneur" on Bharat Ratna Lata Mangeshkar ?
   (1) Germany   (2) Norway
   (3) Japan
   (4) United Kingdom
   (5) France

168. The market in which long term securities such as stocks and bonds are bought and sold is commonly known as
   (1) Commodities Exchange
   (2) Capital Market
   (3) Bull Market
   (4) Bullion Market
   (5) None of these

169. Which one of the following was India's top destination for exports during 2009 ?
   (1) UAE   (2) USA
   (3) Russia   (4) China
   (5) Bangladesh

170. World Trade Organisation (WTO)'s ministerial meeting was organised in which of the following cities recently ?
   (1) Geneva   (2) Washington
   (3) Paris   (4) Port of Spain
   (5) None of these

171. As per the reports published in newspapers, India purchased around 200 tonnes of gold (almost half the quantity of gold put up for sale) in September 2009. India purchased this gold from which of the following organisations ?
   (1) World Bank
   (2) Asian Development Bank
   (3) International Monetary Fund
   (4) International Gold Council
   (5) None of these

172. Which one of the following is/are implication(s) of large inflow of foreign exchange into the country ?
   (A) It makes monetary management difficult for RBI.
   (B) It creates money supply, asset bubbles and inflation

(C) It weakens the competitiveness of Indian exports
(1) Only (A)　　(2) Only (B)
(3) Only (C)
(4) Only (A) and (C)
(5) All A, B and C

73. Chinese objections have stalled the road work at the village of Demchok, on the Indian side of the line of control. In which one of the following states is this village located ?
(1) Arunachal Pradesh
(2) Assam
(3) Himachal Pradesh
(4) Rajasthan
(5) None of these

174. Which one of the following companies is the largest producer of natural gas in the country ?
(1) ONGC　　(2) OIL
(3) Cairn India (4) RIL
(5) None of these

175. Which one of the following is the objective of the flagship scheme 'Rashtriya Swasthya Bima Yojana' (RSBY) ?
(1) To provide life insurance cover to rural households
(2) To provide health insurance cover to rural households
(3) To provide both life and health insurance cover to rural household
(4) To provide life and health insurance covers only to people living below poverty line
(5) None of these

176. The Central Banks of which one of the following countries has offered $ 15 billion emergency credit to support its economy hit by falling prices and also to strengthen its currency ?
(1) South Korea (2) Japan
(3) United Kingdom
(4) United States of America
(5) None of these

177. The process of disinvestment of profitable public sector units will be used for which of the following purposes ?
(1) Expansion of existing capacity of PSEs
(2) Modernisation of PSEs
(3) Opening of new PSEs
(4) Meeting the expenditure for various social sector schemes
(5) None of these

178. Which of the following books is written by Chetan Bhagat ?
(1) The Golden Gate
(2) A House for Mr. Biswas
(3) 2 States　　(4) White Tiger
(5) None of these

179. NTPC Ltd. is in the process of exploring opportunities to source coal from overseas. In which one of the following countries has the NTPC identified two new coal mines ?
(1) Bhutan　　(2) Australia
(3) South Korea
(4) Indonesia　(5) None of these

180. In the proposed low cost pension scheme, which one of the following has been made responsible for maintaining of the records of pension account of an individual ?
(1) SIDBI
(2) National Securities Depositories Ltd. (NSDL)
(3) Stock Holding Corporation of India
(4) Reserve Bank of India
(5) None of these

181. Which one of the following had set up the N.R. Narayana Murthy Committee on issues relating to Corporate governance ?
(1) SEBI　　(2) RBI
(3) CII
(4) Ministry of Finance, GOI
(5) None of these

182. Constitutionally, which one of the following can levy Service Tax ?
(1) Union Govt. only
(2) State Govt. only
(3) Union Territory Govt. only
(4) All of these
(5) None of these

183. Which one of the following states has sought a package of Rs. 500 crores ($ 100 million) for its Rural Poverty Reduction Programme?
(1) Madhya Pradesh
(2) Tamil Nadu
(3) Arunachal Pradesh
(4) Karnataka
(5) None of these

184. Which one of the following is the target fixed for fiscal deficit in the year 2010-2011 ?
(1) 3.5 %　　(2) 4.0 %
(3) 5.5 %　　(4) 5.0 %
(5) None of these

185. Citizens of which one of the following age-groups (in years) are covered under the New pension System (NPS)?
(1) 18 – 50　　(2) 21 – 55
(3) 25 – 55　　(4) 18 – 60
(5) None of these

186. Who among the following was the Prime Minister of Nepal just before Madhav Kumar Nepal ?
(1) Ram Baran Yadav
(2) Pushpakamal Dahal Prachand
(3) Girija Prasad Koirala
(4) Mahendra Kumar Suryavanshi
(5) None of these

187. Which of the following nations was the third largest producer of steel in the world in the year 2009 ?
(1) China　　(2) India
(3) United States of America
(4) Japan
(5) None of these

188. The 10th Indo-European summit was held in November 2009 in New Delhi. Who among the following represented India and presided over it ?
(1) SM Krishna
(2) Pratibha Patil
(3) Pranab Mukherjee
(4) Manmohan Singh
(5) None of these

189. Irina Bocova is the Chief Executive of
(1) ILO　　(2) UNICEF
(3) OPEC　(4) UNO
(5) UNESCO

190. Which of the following is the first cricketer to score 17000 runs in One Day International matches ?
(1) Rahul Dravid
(2) Stephen Fleming
(3) Ricky Ponting
(4) Sachin Tendulkar
(5) None of these

191. Who among the following won 'Mis Earth 2009' title ?
(1) Alejandra Castillo Munera
(2) Sandra Seifort
(3) Jessica Barboza
(4) Larissa Ramos
(5) None of these

192. Which of the following organisations/institutions has increased its loan to be given to India to US $7 billion ?
(1) Asian Development Bank
(2) International Monetary Fund
(3) World Bank
(4) European Union
(5) None of these

193. Well known Dada Saheb Phalke award is given for excellence in the field of
   (1) Sports   (2) Literature
   (3) Science and Technology
   (4) Social Service
   (5) None of these

194. Dourji Khandu is the Chief Minister of the state of
   (1) Meghalaya
   (2) Uttarakhand
   (3) Arunachal Pradesh
   (4) Assam
   (5) None of these

195. The organisation of South East Asian Nations is called
   (1) OPEC   (2) SAPTA
   (3) NATO   (4) UNCTAD
   (5) ASEAN

196. Who among the following is the author of the book 'Termites in the Trading System' ?
   (1) M.S. Swaminathan
   (2) Jagdish Bhagwati
   (3) Jaswant Singh
   (4) M. Chelapati Rao
   (5) None of these

197. Reverse Mortgage scheme was initiated by some organisations/ institutions some years ago. It was started to help which of the following class/group of the society?
   (1) Beneficiaries of NREGA
   (2) People living below poverty line
   (3) Youths
   (4) Senior Citizens
   (5) None of these ,

198. In the sport of Football, which of the following term is used ?
   (1) Caddi   (2) Cut back
   (3) Mid-on   (4) Luv
   (5) None of these

199. Which of the following is a non-food crop ?
   (1) Wheat   (2) Maize
   (3) Bajra   (4) Rice
   (5) Jute

200. The Government of India has recently announced its Foreign Trade Policy ? This announcement is made by which of the following ministry/agency ?
   (1) Reserve Bank of India
   (2) EXIM Bank
   (3) Ministry of External Affairs
   (4) Ministry of Commerce and Industries
   (5) None of these

ANSWERS

1. (2)	2. (1)	3. (4)	4. (4)
5. (4)	6. (2)	7. (1)	8. (4)
9. (2)	10. (2)	11. (3)	12. (3)
13. (4)	14. (1)	15. (3)	16. (1)
17. (2)	18. (3)	19. (5)	20. (4)
21. (5)	22. (3)	23. (2)	24. (4)
25. (1)	26. (1)	27. (4)	28. (5)
29. (3)	30. (3)	31. (4)	32. (1)
33. (5)	34. (3)	35. (2)	36. (1)
37. (3)	38. (5)	39. (2)	40. (4)
41. (5)	42. (1)	43. (1)	44. (2)
45. (4)	46. (3)	47. (2)	48. (1)
49. (5)	50. (4)	51. (1)	52. (2)
53. (3)	54. (4)	55. (2)	56. (4)
57. (3)	58. (5)	59. (5)	60. (1)
61. (4)	62. (3)	63. (2)	64. (3)
65. (3)	66. (1)	67. (3)	68. (1)
69. (2)	70. (4)	71. (1)	72. (2)
73. (5)	74. (4)	75. (1)	76. (1)
77. (5)	78. (5)	79. (1)	80. (2)
81. (4)	82. (1)	83. (1)	84. (2)
85. (4)	86. (2)	87. (1)	88. (3)
89. (4)	90. (5)	91. (2)	92. (3)
93. (1)	94. (1)	95. (4)	96. (2)
97. (3)	98. (5)	99. (5)	100. (4)
101. (3)	102. (5)	103. (4)	104. (2)
105. (1)	106. (3)	107. (5)	108. (1)
109. (4)	110. (2)	111. (5)	112. (4)
113. (3)	114. (1)	115. (2)	116. (3)
117. (1)	118. (2)	119. (2)	120. (5)
121. (4)	122. (1)	123. (4)	124. (5)
125. (3)	126. (4)	127. (5)	128. (1)
129. (3)	130. (2)	131. (3)	132. (4)
133. (2)	134. (5)	135. (1)	136. (2)
137. (4)	138. (5)	139. (1)	140. (3)
141. (2)	142. (4)	143. (1)	144. (3)
145. (5)	146. (4)	147. (5)	148. (1)
149. (3)	150. (2)	151. (3)	152. (5)
153. (2)	154. (5)	155. (1)	156. (2)
157. (3)	158. (4)	159. (1)	160. (1)
161. (3)	162. (3)	163. (2)	164. (1)
165. (4)	166. (4)	167. (5)	168. (2)
169. (1)	170. (1)	171. (3)	172. (5)

173. (1)	174. (1)	175. (2)	176. (2)
177. (4)	178. (3)	179. (4)	180. (2)
181. (1)	182. (1)	183. (1)	184. (3)
185. (5)	186. (2)	187. (2)	188. (4)
189. (5)	190. (4)	191. (4)	192. (1)
193. (5)	194. (3)	195. (5)	196. (2)
197. (4)	198. (5)	199. (5)	200. (4)

EXPLANATIONS

1. (2)
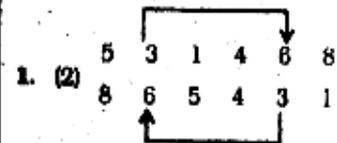
2. (1)
```
S A G E P E R T
↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
4 1 6 9 7 9 2 8
```
Therefore,
```
S T E P
↓ ↓ ↓ ↓
4 8 9 7
```

3. (4) Subodh's mother's only brother means maternal uncle of Subodh. Therefore, the girl is cousin sister of Subodh.
   The sex of Subodh cannot be ascertained from the facts given in the question. Therefore, Subodh is either cousin brother or sister of that girl.

4. (4)
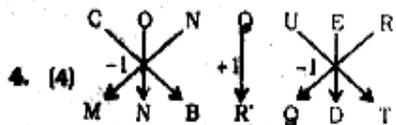
Similarly,
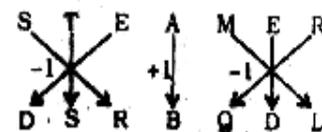
5. (4) New number
```
1 9 5 7 8 3 2 4
```

6. (2)
```
5 3 2 1 6 4 8
1 2 3 4 5 6 8
```

7. (1)

Number of students between R and T = 20 − (4 + 5) = 11

8. (4) Meaningful Words ⇒ LANE, LEAN, ELAN

9. (2) $14 - 4 \times 7 \div 12 + 8 = ?$

$\Rightarrow ? = 14 \times 4 \div 7 + 12 - 8$

$\Rightarrow ? = \dfrac{14 \times 4}{7} + 12 + 8$

$\Rightarrow ? = 8 + 12 - 8 = 12$

10. (2) D > C > E, B, A

11. (3)

```
┌──────┐      ┌──────────┐
16  5  18  6  15  18  1  20  5
 P   E   R  F   O   R   A   T  E
```

12. (3)

Monday is |a holiday| → sa |da| pa |na|

they enjoy |a holiday| → |da na| ta ka

The code for 'Monday' is 'sa' or 'pa'.

13. (4) B $\xrightarrow{+7}$ I

F $\xrightarrow{+7}$ M

Therefore

H $\xrightarrow{+7}$ O

L $\xrightarrow{+7}$ S

14. (1)

```
        30 m
   ┌─────────────┐        N
   │             │ 20 m   ↑
   │             │   W ◄──┼──► E
   ● ───────────          ↓
  30 m                    S
Starting
Point
```
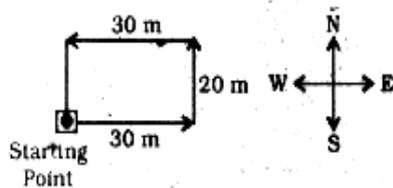
Nikhil is 20 m towards north.

15. (3) 9 1 8 2 7 3 6 4 5

9 1 8 2 7 3 6 – 5

9 1 8 2 7 3 – – 5

9 1 8 2 7 – – – 5

16. (1) 813 ⇒ 183 ; 479 ⇒ 749 ;

564 ⇒ 654; 385 ⇒ 835 ;

792 ⇒ 972

Lowest Number ⇒ 183 ⇒ 813

17. (2) Second Lowest Number

⇒ 4 [7] 9

18. (3) Second Highest Number

⇒ 792

7 + 2 = 9

19. (5) W + T ⇒ W is father of T.

T + J ⇒ T is father of J.

Therefore, W is paternal grandfather of J.

J + T ⇒ J is father of T.

T × W ⇒ T is mother of W.

Therefore, J is maternal grandfather of W.

J × T ⇒ J is mother of T.

T × W ⇒ T is mother of W.

Therefore, J is maternal grandmother of W.

J × T ⇒ J is mother of T.

T + W ⇒ T is father of W.

Therefore, J is paternal grandmother of W.

20. (4) M – T ⇒ M is brother of T.

T + J ⇒ T is father of J.

J – R ⇒ J is brother of R.

Therefore, M is uncle of R.

R – T ⇒ R is brother of T.

T + M ⇒ T is father of M.

M – K ⇒ M is brother of K.

Therefore, M is nephew of R.

R + T ⇒ R is sister of T.

T + M ⇒ T is father of M.

M + K ⇒ M is sister of K.

Therefore, M is niece of R.

21. (5) | Consonant | Number | Consonant |

Such combinations are :

| H3R | , | K2P | , | N4W | , | V9J |

22. (3)

3 $\xrightarrow{+6}$ K $\xrightarrow{+6}$ N $\xrightarrow{+6}$ [Q]

% $\xrightarrow{+6}$ P $\xrightarrow{+6}$ W $\xrightarrow{+6}$ [U]

M $\xrightarrow{+6}$ 5 $\xrightarrow{+6}$ © $\xrightarrow{+6}$ [V]

23. (2) According to question, the new sequence would be :

H3RMAK2P5EN4W[E]Q1UV9JID78

↑
11th from right

24. (4) 6th to the left of the 14th from the left means 8th from the left and, i.e., K.

25. (1) | Consonant | Number | Symbol |

There is no such combination.

(26–30) :

(i) All tables are umbrellas → Universal Affirmative (A-type).

(ii) Some pens are tables → Particulars Affirmative (I-type).

(iii) No box is bottle → Universal Negative (E-type).

(iv) Some boxes are not bottles → Particular Negative (O-type).

26. (1) Some pens are tables.

All tables are umbrellas.

I + A ⇒ I- type of Conclusion. "Some pens are umbrellas".

Conclusion II is Converse of it.

Some umbrellas are sticks.

All sticks are caps.

I + A ⇒ I- type of Conclusion "Some umbrellas are caps."

Conclusion I is Converse of it.

27. (4) All cheques are notes.

All notes are tyres.

A + A ⇒ A- type of Conclusion "All cheques are tyres".

Conclusion III is Converse of it.

All notes are tyres.

All tyres are books.

A + A ⇒ A- type of Conclusion "All notes are books".

All tyres are books.

All books are rods.

A + A ⇒ A- type of Conclusion "All tyres are rods".

All notes are books.

All books are rods.

A + A ⇒ A- types of Conclusion "All notes are rods".

Conclusion I is Converse of it.

All cheques are tyres.

All tyres are books.

A + A ⇒ A- type of Conclusion "All cheques are books".

Conclusion II is Converse of the third Premise.

28. (5) Some lanes are poles.

All poles are skies.

I + A ⇒ I- type of Conclusion "Some lanes are skies".

Some skies are boxes.

No box is bottle.

I + E ⇒ O- type of Conclusion

14

"Some skies are not bottles".
Conclusions I and III form
Complementary Pair. Therefore,
either I or III follows.

29. (3) Some cars are days.

All days are nights.

I + A ⇒ I- type of Conclusion
"Some cars are nights".
Conclusion II is Converse of it.

30. (3) Some seeds are flowers.

All flowers are trees.

I + A ⇒ I- type of Conclusion
"Some seeds are trees".

All flowers are trees.

All trees are leaves.

A + A ⇒ A- type of Conclusion
"All flowers are leaves".
Conclusion III is Converse of it.

Some seeds are trees.

All trees are leaves.

I + A ⇒ I- type of Conclusion
"Some seeds are leaves".
Conclusion II is Converse of it.

(31-35) : Sitting arrangement
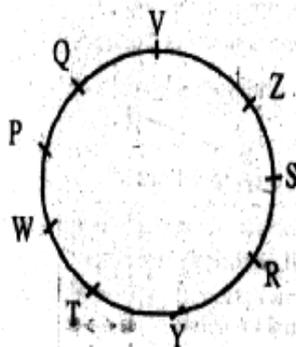
31. (4) V is sitting between Z and Q.
32. (1) Q is second to the right of Z.
33. (5) Y is sitting to the immediate right of T.
34. (3) T is third to the left of S.
35. (2) R is third to the right of W.
36. (1) U Z M K E F
↓ ↓ ↓ ↓ ↓ ↓
3 5 9 2 ★ 4
Condition (iii) is applicable.

37. (3) H I R E B W
↓ ↓ ↓ ↓ ↓ ↓
8 © 7 ★ @ 6
38. (5) J B I F M R
↓ ↓ ↓ ↓ ↓ ↓
$ @ © $ 9 7
Condition (ii) is applicable.
39. (2) D E K R B J
↓ ↓ ↓ ↓ ↓ ↓
1 ★ 2 1 @ $
Condition (ii) is applicable.
40. (4) E B A J W U
↓ ↓ ↓ ↓ ↓ ↓
% @ % $ 6 4
Condition (i) is applicable.

(41-45) : After careful analysis of
the Input and various steps of rear-
rangement, it is evident that in the first
step one number is arranged and in
the second step one word is arranged.
These two steps are continued alter-
nately till all the numbers get arranged
in ascending order and all the words
get arranged in alphabetical order but
in reverse order.

41. (5)
Input : man 79 over 63 like 43 joy 15
Step I : 15 man 79 over 63 like 43 joy
Step II : 15 over man 79 63 like 43 joy
Step III : 15 over 43 man 79 63 like joy
Step IV : 15 over 43 man 63 79 like joy
Step V : 15 over 43 man 63 like 79 joy

42. (1)
Step II : 27 world go 57 48 stem 35 kite
Step III : 27 world 35 go 57 48 stem kite
Step IV : 27 world 35 stem go 57 48 kite
Step V : 27 world 35 stem 48 go 57 kite
Step VI : 27 world 35 stem 48 kite go 57
Step VII : 27 world 35 stem 48 kite 57 go

43. (1)
Input : 94 join for 81 style home 32 48
Step I : 32 94 join for 81 style home 48
Step II : 32 style 94 join for 81 home 48

Step III : 32 style 48 94 join for 81 home
Step IV : 32 style 48 join 94 for 81 home
Step V : 32 style 48 join 81 94 for home
Step VI : 32 style 48 join 81 home 94 for

44. (2)
Step III : 18 tower 38 basket 82 76 hall new
Step IV : 18 tower 38 new basket 82 76 hall
Step V : 18 tower 38 new 76 basket 82 hall
Step VI : 18 tower 38 new 76 hall basket 82
Step VII : 18 tower 38 new 76 hall 82 basket

45. (4) From the given step, Input can- not be determined.

(46-50) :

% ⇒ <	# ⇒ >	δ ⇒ =
★ ⇒ ≥	@ ⇒ ≤	

46. (3) M # R ⇒ M > R
R % P ⇒ R < P
P δ J ⇒ P = J
Therefore, M > R < P = J
Conclusions
I. M # P ⇒ M > P : Not True
II. J # R ⇒ J > R : True
III. U % M ⇒ J < M : Not True

47. (2) P ★ D ⇒ P ≥ D
D # Q ⇒ D > Q
Q @ R ⇒ Q ≤ R
Therefore, P ≥ D > Q ≤ R
Conclusions
I. Q % P ⇒ Q < P : True
II. R # D ⇒ R > D : Not True
III. P # D ⇒ P > D : Not True

48. (1) T % M ⇒ T < M
M @ K ⇒ M ≤ K
K ★ F ⇒ K ≥ F
Therefore, T < M ≤ K ≥ F
Conclusions
I. F % M ⇒ F < M : Not True
II. F % T ⇒ F < T : Not True
III. K # T ⇒ K > T : True

49. (5) H @ K ⇒ H ≤ K
K δ N ⇒ K = N
N % T ⇒ N < T
Therefore, H ≤ K = N < T

15

Conclusions

I. T # K ⇒ T > K : True

II. N δ H ⇒ N = H : Not True

III. H % N ⇒ H < N : Not True

Either II or III is true.

50. (4) F δ D ⇒ F = D

D ★ K ⇒ D ≥ K

K # M ⇒ K > M

Therefore, F = D ≥ K > M

Conclusions

I. M % D ⇒ M < D : True

II. K @ F ⇒ K ≤ F : True

III. F # M ⇒ F > M : True

(51–60) :

| Candi-date	Criteria							
	(i) or (a)	(ii)	(iii)	(iv)	(v) or (b)			(vi)
Susan	✓	–	✓	✓	✓	✓	–	✓
Archana	✓	–	✓	✓	✓	✗	✗	✓
Sudhakar	–	✓	✓	✓	✓	✓	–	✓
Abhinav	✓	–	✓	✓	✓	–	✓	✓
Atul	✓	–	✓	✗	✓	✓	–	✓
Meena	✓	–	✓	✓	✓	–	✓	✓
Navin	–	✓	✓	✓	✓	✓	–	✓
Ashok	✓	–	✓	✓	✓	✓		NG
Suresh	✓	–	NG	✓	✓	✓	–	✓
Antara	✓	–	✓	✓	✓	✓	–	✓

51. (1) Susan D'Souza satisfies all the conditions. Therefore she can be selected.

52. (2) Archana Sahu does not satisfy condition (v) or (b). Therefore, she cannot be selected.

53. (3) Sudhakar Bagchi does satisfy conditions (a), (ii), (iii), (iv), (v) and (vi). Therefore, his case should be referred to ED.

54. (4) Abhinav Shukla does satisfy conditions (i), (ii), (iii), (iv), (b) and (vi). Therefore his case should be referred to Chairman.

55. (2) Atul Garg does not satisfy condition (iii). Therefore, he cannot be selected.

56. (4) Meena Gogoi does satisfy condition (i), (ii), (iii), (iv), (b) and (vi). Therefore, her case should be referred to Chairman.

57. (3) Navin Malhotra does satisfy conditions (a), (ii), (iii), (iv), (v) and (vi). Therefore, his case should be referred to ED.

58. (5) There is no information about condition (vi).

59. (5) The percentage of marks in XII standard examination is not given.

60. (1) Antara Ghosh does satisfy all the conditions. Therefore, she can be selected.

(61–65) :

Person	Department	Scale
A	Finance	III
B	Sales	III
C	Finance	III
D	Sales	I
E	Finance	III
F	Operations	II
G	Sales	I
H	Operations	II

61. (4) The combination Finance – E– III is correct.

62. (3) B, D and G work in Sales department.

63. (2) H belongs to scale II.

64. (3) G belongs to scale I.

65. (3) C belongs to scale III.

66. (1) Consider the second and the third line of the passage. From these two lines, it is clear that the inference is true.

67. (3) There is no such comparison in the passage.

68. (1) The inference is definitely true. Consider the last line of the passage.

69. (2) From the first three lines of the passage it is clear that the inference is probably true.

70. (4) The inference is probably false. It is mentioned in the passage that coal resource is relatively large in comparison to other fossil fuels. Therefore, it is very difficult to assert that India's coal reserves are much more than its requirement.

71. (1) Only course of action I seems to be suitable for pursuing. Proper inspection of buses can ensure maintenance. The use of term 'all' in the second course of action makes it invalid.

72. (2) Clearly couse of action II is suitable for pursuing. Course of action I suggests a very harsh measure.

73. (5) Both the courses of action I and II are suitable for pursuing.

74. (4) None of the courses of action is suitable for pursuing. Course of action I is not suitable for such a minor incident. Course of action II does not solve the problem.

75. (1) Course of action I seems to be suitable for pursuing.

76. (1) Only assumption I is implicit in the statement. The cricketing body decided to hold the final match in the biggest stadium assuming that a large number of tickets would be sold.

77. (5) Clearly both the assumptions are implicit in the statement. The local hospital issued the notice assuming that large number of people would come up to avail the facility and hospital staff would be able to cope up with the rush of people for check up.

78. (5) Both the assumptions are implicit in the statement. If the Government has decided to distribute foodgrains, it implies that there is enough stock for distribution.

79. (1) Only assumption I is implicit in the statement. The Government advises the banks to reduce rate of interest assuming that bank would reduce the rate of interest.

80. (2) Only assumption II is implicit in the statement. Any notice is issued assuming that people will read the notice and follow the contents of the notice.

81. (4) Clearly both the statements are effects of independent causes.

82. (1) Clearly statement (A) is the cause and statement (B) is its effect.

83. (1) Clearly statement (A) is the cause and statement (B) is its effect.

84. (2) Clearly statement (B) is the cause and statement (A) is its effect.

85. (4) Both the statements (A) and (B) are effects of independent causes.

86. (2) The following changes occur from Problem Figure (1) to (2) :
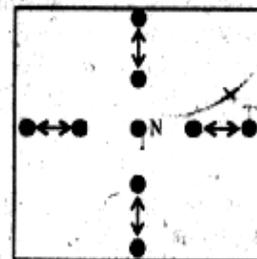
Similar changes occur from Problem Figure (3) to (4) and from Problem Figure (5) to Answer Figure.

87. (1) From Problem Figure (1) to (2) one line segment is deleted from the upper row, the left and the right designs of the middle row interchange positions and one circle is

added in the lower row. From Problem Figure (2) to (3) two line segments are added in the upper row, the two middle designs of the middle row interchange positions and two circles are deleted from the lower row. Similar changes are continued in the subsequent figures. Therefore, from Problem Figure (5) to Answer Figure five line segments of the upper row would be deleted, the left and the right designs of the middle row would interchange positions and five circles would be added to the lower row.

88. (3) The following changes occur from Problem Figure (1) to (2) :
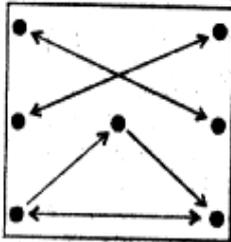
Similar changes occur from Problem Figure (3) to (4) and from Problem Figure (5) to Answer Figure.

89. (4) The following changes occur from Problem Figure (1) to (2) :
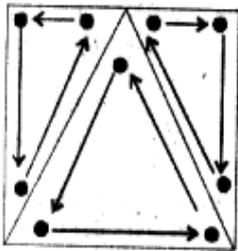
Similar changes occur from Problem Figure (3) to (4) and from Problem Figure (5) to Answer Figure.

90. (5) The following changes occur from Problem Figure (1) to (2) :
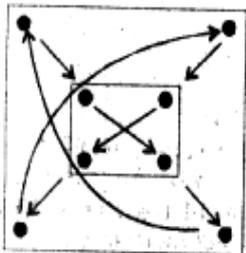
Similar changes occur from Problem Figure (3) to (4) and from Problem Figure (5) to Answer Figure.

91. (2) In each subsequent figure half leaflet is added and the design moves in clockwise direction after rotating through 45°, 90°, 135°, 180°.......... clockwise respectively.

92. (3) From Problem Figure (1) to (2) the shaded part of the left design moves in anticlockwise direction and the lower design is inverted. Similar changes occur from Problem Figure (3) to (4) and from Problem Figure (5) to Answer Figure.

93. (1) The following changes occur from Problem Figure (1) to (2) :
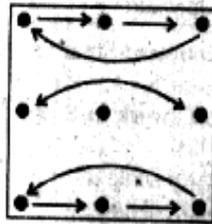
The arrow rotates through 45° clockwise in each subsequent figure.

Similar changes occur from Problem Figure (3) to (4) and from Problem Figure (5) to Answer Figure.

94. (1) From Problem Figure (1) to (2) the line segment (diagonal) rotates through 45° with the two pairs of designs. Similar changes occur from Problem Figure (3) to (4) and from Problem Figure (5) to Answer Figure.

95. (4) From Problem Figure (1) to (2) all the designs move one step in clockwise direction and the central design is replaced with a new design. Similar changes occur from Problem Figure (3) to (4) and from Problem Figure (5) to Answer Figure.

**96.** (2) From Problem Figure (1) to (2) the half part of each design moves to the opposite side. Similar changes occur from Problem Figure (3) to (4) and from Problem Figure (5) to Answer Figure.

97. (3) The following changes occur from Problem Figure (1) to (2) :
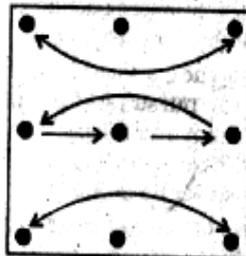
Similar changes occur from Problem Figure (3) to (4) and from Problem Figure (5) to Answer Figure.

98. (5) From Problem Figure (1) to (2) the design rotates through 90° clockwise. Similar changes occur from Problem Figure (3) to (4) and from Problem Figure (5) to Answer Figure.

99. (5) From Problem Figure (1) to (2) the outer designs move one step in anticlockwise direction while the inner designs move one step in clockwise direction. Similar changes occur from Problem Figure (3) to (4) and from Problem Figure (5) to Answer Figure.

100. (4) In each subsequent figure a new design appears at the upper right corner and alternately one and two line segment(s) appear(s) at the middle left position. The angle descends diagonally stepwise after rotating through 90° clockwise and ascends diagonally in one step. The design (B) moves stepwise from right to left and in one step from left to right after rotating through 90° anticlockwise.

101. (3) $\dfrac{250 \times 14}{100} \times \dfrac{150 \times ?}{100} = 840$

$\Rightarrow \dfrac{525 \times ?}{10} = 840$

$\Rightarrow ? = \dfrac{840 \times 10}{525} = 16$

102. (5) $? = \sqrt[3]{729} = 9$

103. (4) $? = \dfrac{2598.75}{15.4 \times 13.5} = 12.5$

104. (2) $? = 6435.9 + 7546.4 + 1203.5$
$= 15185.8$

105. (1) $? = \dfrac{4.5 \times 437}{19} = 103.5$

106. (3) $? = 8400 \div 375 \times 15$
[∵ 8399.999 ≈ 8400, 14.996 = 15]

$= \dfrac{8400 \times 15}{375} \approx 336$

∴ Required answer = 335

107. (5) $? \approx 37 \times 37 \approx 1369$

∴ Required answer = 1370

108. (1) $? \approx \dfrac{620 \times 15}{100} \approx 93$

∴ Required answer = 95

109.(4) ? = $11 \times 20 \times 9 = 1980$

110.(2) ? = 1088.88 + 1800.08 + 1880.80

= 4769.76 ≈ 4770

111.(5) The pattern is :

$5 + 7^2 = 54$

$54 + 6^2 = 90$

$90 + 5^2 = 115$

$115 + 4^2 = 131$

$131 + 3^2 = 140$

$140 + 2^2 = 140 + 4 = \boxed{144}$

112.(4) The pattern is :

$7 \times 0.5 + 0.5 = 3.5 + 0.5 = 4$

$4 \times 1 + 1 = 4 + 1 = 5$

$5 \times 1.5 + 1.5 = 7.5 + 1.5 = 9$

$9 \times 2 + 2 = 18 + 2 = \boxed{20}$

113.(3) The pattern is :

$6 \times 7 = 42$

$42 \times 6 = \boxed{252}$

$252 \times 5 = 1260$

114.(1) The pattern is :

$4 \times 5 - 10 = 10$

$10 \times 5 - 10 = 40$

$40 \times 5 - 10 = 190$

$190 \times 5 - 10 = 940$

$940 \times 5 - 10 = 4700 - 10$

$= \boxed{4690}$

115.(2) The pattern is :

$2 \times 1 + 1 \times 7 = 9$

$9 \times 2 + 2 \times 6 = 30$

$30 \times 3 + 3 \times 5 = \boxed{105}$

$105 \times 4 + 4 \times 4 = 436$

$436 \times 5 + 5 \times 3 = 2195$

116.(3) Number of sweets for 150 absent children = $300 \times 3 = 900$

∴ Number of sweets each student

gets = $\dfrac{900}{150} + 3 = 9$

117.(1) The word TRUST consists of five letters in which T comes twice.

∴ Number of arrangements = $\dfrac{5!}{2!}$

$= \dfrac{5 \times 4 \times 3 \times 2 \times 1}{2 \times 1} = 60$

118.(2) Required time = LCM of 18, 24 and 32 seconds.

= 288 seconds

119.(2) Number of possible outcomes

$= n(S) = {}^7C_3 = \dfrac{7 \times 6 \times 5}{1 \times 2 \times 3} = 35$

Favourable number of cases

$= n(E) = {}^1C_3 + {}^4C_1 = 1 + 4 = 5$

∴ Required probability

$= \dfrac{n(E)}{n(S)} = \dfrac{5}{35} = \dfrac{1}{7}$

120.(5) Required percentage

$= \dfrac{50 \times 100}{300} = 17$

121.(4) C.I. $= P\left[\left(1 + \dfrac{R}{100}\right)^T - 1\right]$

$= 45400\left[\left(1 + \dfrac{15}{100}\right)^2 - 1\right]$

$= 45400\left[(1.15)^2 - 1\right]$

$= 45400 \times 0.3225 = $ Rs. 14641.5

122.(1) 72 men = 144 women = 180 children

2 men = 4 women = 5 children

4 men + 12 women + 20 children

= 4 men + 6 men + 8 men = 18 men

When 6 men do 1 work in 12 days, 18 men will do the same in 4 days.

∴ Remaining work = $\dfrac{1}{2}$

$\dfrac{M_1 D_1}{W_1} = \dfrac{M_2 D_2}{W_2}$

$\Rightarrow \dfrac{1}{2} \times 6 \times 12 = 1 \times M_2$

$\Rightarrow M_2 = 36 = $ Number of men

123.(4) $\pi r^2 = 323785$

$\Rightarrow r^2 = \dfrac{323785 \times 7}{22}$

$\Rightarrow r = \sqrt{\dfrac{323785 \times 7}{22}} = 1015$ metre

∴ Circumference of the circle

$= 2\pi r = 2 \times \dfrac{22}{7} \times 1015$

= 638 metre

∴ Expenditure on facing

= Rs. (154 × 638) = Rs. 98252

124.(5) Let the speed of the train be x m/sec.

∴ $\dfrac{320 \times 2}{x} - \dfrac{320}{x} = 80$

$\Rightarrow \dfrac{320}{x} = 80$

$\Rightarrow x = \dfrac{320}{80} = 4$ m/sec = speed of train

125.(3) Let the present ages of Vishal and Shekhar be $14x$ and $17x$ years respectively.

After 6 years,

$\dfrac{14x + 6}{17x + 6} = \dfrac{17}{20}$

$\Rightarrow 280x + 120$

$= 289x + 102 \Rightarrow 9x = 18$

$\Rightarrow x = \dfrac{18}{9} = 2$

⇒ Shekhar's present age

$= 17 \times 2 = 34$ years

126.(4) Number of men working in the Marketing department

$= 1800 \times \dfrac{18}{100} \times \dfrac{7}{12} = 189$

127.(5) Number of women working in IT department

$= 1800 \times \dfrac{23}{100} \times \dfrac{4}{9} = 184$

∴ Required percentage

$= \dfrac{184}{1800} \times 100 = 10$

128.(1) Required ratio = 3 : 4

129.(3) Required ratio = 2 : 9

130.(2) Required percentage

$= \dfrac{11}{12} \times 100 = 91.67$

131.(3) Required ratio

= (16.2 + 16.7) : (14.9 + 16.3)

= 329 : 312

132.(4) Number of units manufactured by Company E

= (13.9 + 14.1 + 15.4 + 15.7 + 16.4 + 16.6) thousand

= 92.1 thousand

Required per cent

$= \dfrac{14.1}{92.1} \times 100 = 15$

133.(2) Required average

$$= \left(\frac{16.2 + 15.3}{2}\right) \text{ thousand}$$

$$= 15750$$

134.(5) Number of units manufactured by Company C

$$= (11.6 + 12.4 + 12.7 + 12.9 + 13.8 + 14.9) \text{ thousand}$$

$$= 78.3 \times 1000 = 78300$$

135.(1) Percentage increase

$$= \frac{16.7 - 16.1}{16.1} \times 100 = 3.73$$

136.(2) From statement II,

$$x + y = 18$$

It is possible only when $x = y = 9$.

137.(4) Data are inadequate.

138.(5) From both statements,

Speed of boat in still water

$$= \frac{1}{2}(4 + 6) = 5 \text{ kmph}$$

139.(1) From statement I

Nigam's marks in Biology

$$= 2 \times 42 = 84$$

140.(3) From statement I,

$$\text{Rate} = \frac{\text{S.I.} \times 100}{\text{Time} \times \text{Principal}}$$

$$= \frac{1736 \times 100}{6200 \times 2} = 14\% \text{ per annum}$$

By using C.I. $= P\left[\left(1 + \frac{R}{100}\right)^T - 1\right]$,

we get the required rate of interest.

141.(2) Required ratio $= 22.5 : 27.5$

$$= 9 : 11$$

142.(4) Average number of students failing in the examination from cities L and M together.

$$= \left(\frac{22.5 + 35}{2}\right) \text{ thousand} = 28750$$

143.(1) Total number of students failing in the exam $= (22.5 + 35 + 30 + 37.5 + 20 + 30)$ thousand $= 175000$

144.(3) Required percent

$$= \frac{20}{(35 + 20)} \times 100 = 36.36$$

145.(5) Total number of students passing in the exam from all the cities together

$$= (30 + 22.5 + 32.5 + 25 + 35 + 27.5) \text{ thousand} = 172.5 \text{ thousand}$$

Required percentage

$$= \frac{25}{172.5} \times 100 = 14$$

146.(4) If the expenditure be Rs. x lacs, then

$$\frac{18.9}{x} \times 100 = 9$$

$$\Rightarrow x = \frac{18.9 \times 100}{9}$$

$$= \text{Rs. } 210 \text{ lacs}$$

$$\therefore \text{ Income} = \text{Rs. } (210 + 18.9) \text{ lacs}$$

$$= \text{Rs. } 228.9 \text{ lacs}$$

147.(5) Percentage increase

$$= \frac{4}{10} \times 100 = 40$$

148.(1) Required expenditure of the company $= \frac{21 \times 100}{7}$

$$= \text{Rs. } 30 \text{ lacs}$$

149.(3) Average per cent profit

$$= \frac{7 + 8 + 13 + 14 + 15 + 15}{6} = 12\%$$

150.(2) Required difference

$$= 10 - \left(\frac{9 + 5 + 8 + 12 + 6}{5}\right)$$

$$= 10 - 8 = 2\%$$

151.(3) Fll of Berlin Wall
152.(5) Climate Migration
153.(2) One hundredth of 1%
154.(5) Only A and B
155.(1) West Bank
156.(2) National Human Rights Commission
157.(3) Only A
158.(4) All A, B and C
159.(1) Crude Oil
160.(1) Delhi
161.(3) Emergency aid
162.(3) National Rural Employment Guarantee Act
163.(2) Manufacturing
164.(1) Trinidad
165.(4) Only (1) and (2)
166.(4) Only (1) & (2)
167.(5) France
168.(2) Capital Market
169.(1) UAE
170.(1) Geneva
171.(3) International Monetary Fund

172.(5) All A, B and C
173.(1) Arunachal Pradesh
174.(1) ONGC
175.(2) To provide health insurance cover to rural households
176.(2) Japan
177.(4) Meeting the expenditure for various social sector schemes
178.(3) 2 States
179.(4) Indonesia
180.(2) National Securities Depositories Ltd. (NSDL)
181.(1) SEBI
182.(1) State Govt. only
183.(1) Madhya Pradesh
184.(3) 5.5 %
185.(5) None of these
186.(2) Pushpakamal Dahal Prachand
187.(2) India
188.(4) Manmohan Singh
189.(5) UNESCO
190.(4) Sachin Tendulkar
191.(4) Larissa ramos
192.(1) Asian Development Bank
193.(5) None of these
194.(3) Arunachal Pradesh
195.(5) ASEAN
196.(2) Jagdish Bhagwati
197.(4) Senior Citizens
198.(5) None of these
199.(5) Jute
200.(4) Ministry of Commerce and Industries

Inspiring People