LIC Assistant Administrative Officer (AAO) Exam

Previous Paper (Completely Solved) - Held on 07-06-2009

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Reasoning

Directions (1 - 5): The President of a club is appointing nine officials A, B, C, D, E, F, G, H and I to serve on three committees to study three different aspects of activities of the club. There will be a Games Committee, a Food Service Committee and an Entertainment Committee. The appointments must respect the following:

Each committee must have exactly three members.

No person can serve on more than one committee.

H must serve on the Entertainment Committee.

C and D must serve on the same committee.

A and B cannot serve on the same committee.

E cannot serve on the same committee as I.

F must serve on the same committee as B or H or both B and H.

- 1. If B and G serve on the Games Committee, which of the following must serve on the Food Service Committee?
 - (1) A (2) D (4) F
- 2. Which of the following groups could constitute the Games Committee?
 - (1) A, B, E
 - (2) A, D, G
 - (3) C, H, E
 - (4) F, I, B
- 3. If A is assigned to the Food Service Committee and C is appointed to Entertainment Committee, then which of the following must be true?
- I. G is appointed to the Food Service Committee.
- II. E is appointed to the Games Committee.
- III. I is appointed to the Entertainment Committee.
 - (1) I only
 - (2) III only
 - (3) I and III only
 - (4) II and III only

- 4. If F serves on the Food Service Committee and C serves on the same Committee as H. then which of the following must serve on the Games Committee?
 - I. A II. G
 - III I
 - (1) I only (2) III only
 - (3) I and II only
 - (4) II and III only
- 5. If I is on the Entertainment Committee and B is on the Food Service Committee, then which of the following must be true?
 - (1) F is on the Entertainment Committee
 - (2) C is on the Games Committee
 - (3) G is on the Food Service Committee
 - (4) F is on the Games Commit-

Directions (6 - 10): Letters of certain words have been rearranged and the jumbled spellings have been given below. Out of the choices given below each question, choose the last letter of the correct word.

- 6. AYDOT
 - (1) A (3) T
- (2) D (4) Y
- 7. ILCEOP
 - (1) C
 - (3) L
- (2) E (4) 0
- 8. CAPCET
 - (1) A (3) P
- (2) C (4) T
- 9. VISERL
 - (1) E
- (2) L (4) S
- (3) R 10. ERVSECI
 - (1) E
- (2) 1
- (4) S

Directions (11 - 15): Find out the correct answer out of the four alternatives given below each question and then mark it in your answer sheet

- 11. Ice: Coolness:: Earth:?
 - (1) Forest
- (2) Weight
- (3) Gravitation (4) Ocean
- 12. Coconut : Shell : : Letter : ?
 - (1) Mail
- (2) Letter-box
- (3) Stamp
- (4) Envelope

- 13. Income is related to Profit in the same way as Expenditure is related to
 - (1) Loss
- (2) Surplus
- (3) Balance (4) Sale
- 14. Much is related to Many in the same way as Measure is related
 - (1) Calculate
 - (2) Count
 - (3) Weigh
 - (4) Measurement
- 15. Clue is related to Mystery in the same way Warning is related to
 - (1) Precaution (2) Disaster
 - (3) Risk
- (4) Danger
- 16. Find the oddman out
 - (1) MOndAy (2) tUESdAy
 - (3) WEdNESdAy
 - (4) thUrSdAy
- 17. Three of the following four are alike in a certain way and hence form a group. Which is the one that does not belong to the group?
 - (1) CUSTOMER: SGPSYYBK
 - (2) INTEREST: UUHVJYUQ
 - (3) OVERSEAS: TCHWWKCW
 - (4) BANKING: HPLOSGI
- 18. Three of the following four have similar relationship and hence form a group. Which one does not belong to the group?
 - (1) PROFIT: RPQCKR
 - (2) OTHERS : QRJCTQ
 - (3) LEGUME: NCISOC
 - (4) CANKER : EYPIGP
- 19. Three of the four groups of letters given below are alike in a certain way while one is different. Choose the odd one
 - (1) GWOURV (2) LZKMSU
 - (3) JOEHNP (4) SFXPMG
- 20. Three of the four groups of letters given below are alike in a certain way while one is different. Choose the odd one
 - (1) IW (3) FT
- (2) MS
- (4) JU

Directions (21 - 25) : Find out the missing term in the following letter-number series :

21. H 4 W, I 18 V, K 48 T, N 100 Q, (1) MGVFK (2) PJXHM (1) L, x (2) j, x ?, W 294 H (3) EQZFI (4) GWIQU (3) U, (11) (4) x, L (1) P 1485 S (2) R 180 M 38. Which of the following pairs of Directions (31 - 35): These (3) S 198 I (4) T 206 K elements shows the elements of questions are based on code language 22. 1 ED, 2 FD, 3 KH, ?, 15 KG, Series I and Series II respectivewhich utilizes letters in the English 48 KF ly, which are exactly in the mid-Alphabet. In each question, there is a (1) 12 PX (2) 6 RI dle of the seventh element from word written in capital letters, with one (3) 9 LV (4) 8 TQ the left end and the sixth eleletter underlined. For each letter in 23. M4, T7, P 7, Q 10, S 10, N 13, ment from the right end in Sethat word there is a code written in ?, K 16 ries I and II? small letters. That code is denoted by (1) V 13 (2) K7 (2) Hy (1) hy either 1, 2, 3 or 4, not in the same (3) T 13 (4) G 15 order. You have to find out the exact (3) sQ (4) Sq 24. R 5 P, T 6 M, V 9 J, X 15 G, ? code for the underlined letter in the 39. Three of the following four are (1) A 12 L (2) I 18 X word. The number of that code is the alike in a certain way based on (3) Z 25 D (4) U 20 Q answer. Please note that the same lettheir position in the above se-25. DGK 0, GKP 3, ?, PVC 15 ter appearing in other word (s) may be ries. Which is the one that does (1) GKV 5 (2) KPV 8 coded differently. not belong to that group? (3) PVZ 9 (4) KPU 11 31. DUEL (1) azj (2) emb 26. If the first 6 letters of the En-(1) g (3) qdf (2) i (4) xtk glish Alphabet series are written (3) p (4) j 40. How many such vowels are there in reversed order, then the next 32. PITY in the above arrangements, each 6 letters are written in reversed of which is immediately preced-(1) g (2) b order and so on, and at the end ed by a digit and immediately (3) r(4) k Y is interchanged by Z, then followed by a consonant? 33. RING which letter is fourth letter to (1) 1(2) 2(1) it (2) rk the right of 13th letter from the (3) 3(4) 4 left? (3) mp (4) ti Directions (41 - 44): In the (1) M (2) N 34. GOAL following coded arithmetic equations (3) Q (4) P (1) c (2) q certain symbols are used with the fol-27. If the English Alphabet series is (3) e (4) j lowing meaning: written in the reverse order and 35. SLAP every alternate letter starting I. $P \triangle Q$ means add P to Q; (1) dx (2) ms from Y is dropped, which letter II. P Q means subtract Q from F (3) vp (4) io will be exactly in the middle of III. P Q means multiply P with Q: Directions (36 - 40) : Study the the remaining letters of the Alfollowing arrangements carefully and phabet series? IV. P Q means divide P by Q. (1) L (2) O answer the questions given below: Now study the given information (3) M (4) N Series I: MNLqdfuw2UFOKP6hs and answer the questions following it. 28. If the letters in each of the fol-(14) SHV7gc8RIE (13)xtk Three persons A, B and C comlowing five groups of letters are Series II: azj(14)GJBopir5v9TQY plete a work in 20 days. B and C tofirst rearranged in the alphabet-(10) emn(11)DACby(12) gether are 4/3 times as efficient as A ical order and then the groups xWZ and B together. On the other hand A of letters so formed are rear-36. How many Capital letters are in and C together are 5/4 times as effiranged as in a dictionary, which Series I and in Series II each of cient as B and C together letter group would have its group which is either followed by or **41.** Which of the following equations of letters in the MIDDLE among preceded by the same positioned the five letter-groups? represents the number of days Capital letter of English alphain which A alone can finish the MEET, DEAF, ROAD, CODE, bet from the other end? LACK same work? (1) 4, 3 (2) 6, 2 (2) MEET (1) LACK (1) 24 \(\cap 20 \(\cap \) (24 \(\sup 20) (3) 8, 1 (4), 10, 0 (3) ROAD (4) DEAF (2) 30 ○ 20 (30 △ 20) 37. If the positions of the first twelve 29. The letters skipped in between (3) 30 \(\times 20 \(\times \) (30 \(\propto 20) elements of Series I are reversed, the adjacent letters in the series (4) 40 \(\rightarrow 20 \(\rightarrow \) (40 \(\pi \) 20) and similarly the positions of the are followed by equal space. last twelve elements of Series II Which of the following equations Which of the following series are reversed, then the third elerepresents the number of days observes this rule? ment to the right of the seventh in which B and C together can (1) HKNGSW (2) EIMQVZ element from the left end of Sefinish the same work? (3) SUXADF (4) RVZDHL ries I will be, whereas the (1) 20 (3 \(\text{3} \) () 4 30. Select the series in which the

third element to the left of the

seventh element from the right

end of Series II will be

(2) 20 (12 [6) (3

(3) 20 (12 (6) (5

(4) 40 (20 (40 20)

letters skipped in between adja-

cent letters do not decrease in

order

43.	Which of the following equations represents the number of days in which A and B working together can finish the same work?
	(1) 20 ○ (3 △ 3) ○ 4
	(2) 40 \(\rightarrow 20 \(\rightarrow \) (40 \(\pricesize 20 \)
	(3) 20 ○ (12 □ 6) ○ 5
	(4) 24 ○ (12 □ 6) ○ 3
44.	Which of the following equations
	represents the number of days
	in which A and C working togeth-
	er can finish the same work?

- (1) 40 \bigcirc 20 \bigcirc (40 \square 20)

 - (2) 20 (12 [6) () 5
 - (3) 20 (3 △ 3) 4
 - (4) 20 (12 (6) 3
- 45. A travel towards East. B travels towards North. C and D travel in opposite directions. D travels towards right of A. Which of the following is definitely true?
 - (1) B and C travel in opposite directions
 - (2) C travels towards West
 - (3) D travels towards North
 - (4) B and C travel in the same direction
- 46. A cow runs 20 metres towards East and turns to right, runs 10 metres and turns to right, runs 9 metres and again turns to left, runs 5 metres and then turns to left, runs 12 metres and finally turns to left and runs 6 metres. Now which direction is the cow facing?
 - (1) North
- (2) East
- (3) South
- (4) West
- 47. A boy started walking positioning his back towards the sun. After sometimes, he turned left, then turned right and then towards the left again. In which direction is he going now?
 - (1) East or West
 - (2) North or West
 - (3) South or West
 - (4) North or South
- 48. If Thursday was the day after the day before yesterday five days ago, what is the least number of days ago when Sunday was three days before the day after tomorrow?
 - (1) 1
- (2) 2
- (3) 3
- (4) 4
- 49. In a row of boys facing North, a boy is thirteen from the left. When shifted to his right by

- three places, he becomes seventeenth from right end of the row. How many boys are there in the row?
- (1) 32
- (2) 31
- (3) 33
- (4) 30
- 50. 136 vehicles are parked in a parking lot in a single row. After the first car there is one scooter. After the second car, there are two scooters. After the third car, there are three scooters and so on. Work out the number of scooters in the second half of the row.
 - (1) 61
- (2) 62
- (3)63
- (4) 64
- 51. Three of the following four are alike in a certain way and hence form a group. Which one of the following does not belong to that group?
 - (1) 7
- (2) 9(4) 33
- (3) 17
- Choose the odd numeral pair in the following:
 - (1) 140-45
- (2) 120-35
- (3) 110-35
- (4) 80-25
- Choose that set of numbers from the four alternative sets, that is similar to the given set.
 - Given set: (246, 257, 358)
 - (1) (145, 235, 325)
 - (2) (143, 253, 246)
 - (3) (273, 365, 367)
 - (4) (233, 343, 345)
- 54. Choose the one which is different from the rest
 - (1) 248
- (2) 326
- (3) 392
- (4) 414
- 55. Three of the following four are alike in a certain way and so form a group. Which is the one that does not belong to that group.
 - (1) 156
- (2) 152 (4) 42
- (3)72
- Directions (56 60): 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:

- if only assumption I is implicit;
- if only assumption II is implicit;
- (3)if neither I nor II is implicit; and
- (4) if both I and II are implicit

56. Statement: To achieve economic development, people should work hard.

Assumptions:

- Achieving economic development is desirable.
- II. Working hard is not impossi-
- 57. Statement: He is too industrious to be poor.

Assumptions:

- I. Very industrious people also can be poor.
- II. Very lazy people also can be
- 58. Statement: Visitors may use lift at their own risk.

Assumptions:

- I. Using lift is not always safe.
- II. Visitors do not want to use lift
- 59. Statement: This book is so designed that even a layman can easily learn science in the absence of a teacher.

Assumptions:

- Learning science by everybody is desirable.
- II. A layman generally finds it difficult to learn science on his own.
- 60. Statement: Although the rates of this hotel are comparable with other hotels, the amenities provided here are far superior.

Assumptions:

- I. Rates are independent of amenities provided.
- II. Rates are dependent on amenities provided.

Numerical Ability

- 61. A money lender finds that due to fall in the rate of interest from
 - 8% to $7\frac{3}{4}$ %, his yearly income
 - diminishes by Rs. 61.50. His capital (in Rupees) is:
 - (1) 26000 (2) 24600
 - (3) 23800 (4) 22400
- 62. The compound interest (in Rupees) on Rs. 5,600 for
 - $1\frac{1}{2}$ years at 10% per annum,
 - compounded annually, is (1) 882.70
 - (2) 873.50
 - (3)868
- (4) 840

63.	If one side and one diagonal of a
	rhombus are 5cm and 8cm re-
	spectively, then its area (in cm²)
	is:

(1) 20

(2) 24

(3) 40

(4) 26

64. Half metre long cubic gold sheet is extended by hammering so as to cover an area of one hectare. The thickness of the sheet (in cm.) is:

(1) 0.005

(2) 0.05

(3) 0.5

(4) 0.0005

65. A hemispherical bowl of internal radius 9cm contains a liquid. This liquid is to be filled into cylindrical shaped small bottles of a diameter 3cm and height 4cm. How many bottles will be needed to empty the bowl?

(1) 27

(2) 35

(4) 54 (3) 45

66. Which of the following numbers is exactly divisible by 99?

(1) 114345

(2) 135792

(3) 3572404 (4) 913464

67. In a division sum, the divisor is 10 times the quotient and 5 times the remainder. If the remainder is 46, the dividend is:

(1) 4356

(2) 4816

(3) 5096

(4) 5336

68. On 1st January every year, a person buys N.S.C. (National Savings Certificates) of value exceeding that of his last year's purchase by Rs. 100. After 10 years, he finds that the total value of the certificates held by him is Rs. 54,500. Find the value (in Rupees) of the certificates purchased by him in the first year?

(1) 4,000

(2) 4,800

(3) 5,000

(4) 6,000

69. A tennis ball rebounds each time to a height equal to one-half of the height of the previous bounce, if it is first dropped from a height of 8 metres, find the total vertical distance (in metres) it has travelled when it hits the ground for the 10th time

(1) 21.969

(2) 22.969

(3) 23.969

(4) 24.969

70. The L.C.M. of $\frac{1}{3}$, $\frac{5}{6}$, $\frac{2}{9}$, $\frac{4}{27}$ is $(1) \frac{1}{54} \qquad (2) \frac{10}{27}$

(3) $\frac{20}{3}$ (4) $\frac{27}{3}$

71. $4.8438 \div 0.069 = ?$

(1) 60.2

(2) 69.2

(3) 70.2

(4) 71.2

72. $0.34\overline{67} + 0.13\overline{33} = ?$

(1) 0.48

(2) 0.4801

(4) 4.8 $(3) 0.\overline{48}$

73. In a certain city there are 5 colleges and 20 schools. Each school has 3 peons, 1 clerk and l head clerk, whereas a college has 5 peons, 3 clerks, 1 head clerk and an additional staff as caretaker. The monthly salary of each of them is as follows:

Peon = Rs. 1,100; Head clerk = Rs. 3,000, Clerk = Rs. 1,700, Caretaker = Rs. 2,500. The lotal monthly salary bill (in Rupees) of Schools and Colleges of the city is:

(1) 2,10,800 (2) 2,20,600

(3) 2,30,400 (4) 2,40,500

74. What fraction must be subtract-

ed from the sum of $\frac{1}{4}$ and $\frac{1}{6}$

to have an average of $\frac{1}{12}$ of all the three fractions?

(3) $\frac{1}{4}$ (4) $\frac{1}{6}$

75. The value of $\sqrt{0.4}$ is:

(1) 0.2

(2) 0.02

(3) 0.63

(4) 0.51

76. A team of 8 persons joins in a shooting competition. The best marksman scored 85 points. If he had scored 92 points, the average score for the team would have been 84. The number of points, the team scored was:

(1) 645

(2) 665

(3) 588

(4) 672

77. The sum of three numbers is 136. If the ratio between first and second be 2: 3 and that between second and third be 5:3, then the second number is:

(1) 40

(2) 48

(3) 52

(4) 60

78. A is as much younger to B as he is elder to C. If the sum of the ages of B and C is 48 years, what is the age of A in years?

(1) 20

(2) 24

(3) 30

(4) 32

79. If $\left[3^{m^2} \div \left(3^m\right)^2\right]^{\frac{1}{m}} = 81$, the

value of m is:

(1) -3

(2) -6(4) C

(3) 3p is six times as large as q. The per cent that q is less than p is

(1) $83\frac{1}{3}$ (2) $16\frac{2}{3}$

81. The income of a broker remains unchanged though the rate of commission is increased from 4 per cent to 5 per cent. The percentage of slump in business is :

(1) 10 per cent

(2) 15 per cent

(3) 20 per cent

(4) 30 per cent

82. A man purchased 35 kg of rice at the rate of Rs. 9.50 per kg and 30 kg at the rate of Rs. 10.50 per kg. He mixed the two. Approximately, at what price (in Rupees) per kg should he sell the mixture to make 35 per cent profit in the transaction?

(1) 12

(2) 12.50

(3) 13

(4) 13.50

83. A book is listed at Rs. 150, with a discount of 20 per cent. What additional discount must be offered to bring the net price to Rs. 108?

(1) 8 per cent (2) 10 per cent

(3) $12\frac{1}{2}$ per cent

(4) 15 per cent

84. The sides of a triangle are in the

ratio $\frac{1}{2}$: $\frac{1}{3}$: $\frac{1}{4}$ and its perimeter is 104 cm. The length of the longest side (in cm.) is:

(1) 26

(2) 32

(3) 48

(4) 52

85. X, Y and Z were sharing profits in the ratio 4:3:2. Y retired from the firm and X and Z decide to share profits in the ratio 3:2. Calculate the gaining ratio.

(1) 7:8

(2) 5:9

(3) 4:7

(4) 5:8

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- 86. 15 men take 21 days of 8 hours each to do a piece of work. How many days of 6 hours each would 21 women take, if 3 women do as much work as 2 men?
 - (1) 18

(2) 20

(3) 25

- (4) 3
- 87. A man goes uphill with an average speed of 24 kmph. and comes down with an average speed of 36 kmph. The distance travelled in both the cases being the same. The average speed (in kmph) for the entire journey is:
 - (1) 30

(2) 28.8

(3) 32.6

- (4) 30.8
- 88. A train overtakes two persons who are walking in the same direction in which the train is going, at the rate of 2 kmph and 4 kmph, and passes them completely in 9 and 10 seconds respectively. The length of the train (in metres) is:
 - (1)72

(2) 54

(3) 50(4) 45

- 89. The speed of a boat in still water is 15 kmph and the rate of current is 3 kmph. The distance travelled downstream (in km.) in 12 minutes is:
 - (1) 3.6

(2) 2.4

(3) 1.2

- (4) 1.8
- 90. A sum of Rs. 36.90 is made of 180 coins which are either 10 paise coins or 25 paise coins. The number of 10 paise coins is:
 - (1) 54

(2) 60

(3) 80

(4) 120

General Awareness

- 91. Who is the author of the book 'Speaking for Myself?
 - (1) Cherie Blair
 - (2) Salman Rushdie
 - (3) Mohammad Hanif
 - (4) Hillary Clinton
- 92. Who among the following won the "India Open Grand Prix Badminton Championship" held in April 2008?
 - (1) Thailand (2) India
 - (3) England
- (4) China
- 93. Silvio Berlusconi, whose name was in news recently, is the

- (1) President of Italy
- (2) President of Germany
- (3) Prime Minister of Italy
- (4) Prime Minister of France
- When is International Women's Day, the United Nations Day for Women's Right and International Peace celebrated?

(1) March 4 (2) March 8

- (3) March 12 (4) March 15
- 95. Into how many parts is the Indian constitution divided?
 - (1) 18

(2) 21 (4) 24

(3) 22

- 96. BMD which recently came into news stands for
- (1) Business Management Development
 - (2) Ballistic Missile Development
 - (3) Ballistic Management Defence
 - (4) Ballistic Missile Defence
- 97. The rate at which banks lend to RBI is known as
 - (1) Reporate
 - (2) Reverse repo rate
 - (3) Interest rate
 - (4) Bank rate
- 'Vijay Hazare Trophy' is associ-98. ated with the game of
 - (1) Badminton (2) Football
 - (3) Hockey (4) Cricket
- 99. Pen name 'Beerbal' belongs to
 - (1) Pramatha Chaudhary
 - (2) Ashpurva Dev
 - (3) Samaresh Majumdar
 - (4) Samaresh Basu
- 100. 'Talchar' is famous for thermal power plant. It is located in which of the following states?
 - (1) Assam
 - (2) Bihar
 - (3) Orissa
 - (4) West Bengal
- 101. Which states of India have derived maximum benefits from green revolution?
 - (1) Punjab, Haryana and U.P.
 - (2) Bihar, West Bengal and As-
 - (3) Rajasthan, Gujarat and Maharashtra
 - (4) Tamil Nadu, Andhra Pradesh and Kerala
- 102. Which one of the following is not correctly matched?
 - (1) Warsaw Poland

- (2) Rotterdam Australia
- (3) Khartoum Sudan
- (4) Dublin Ireland
- 103. The term "Green Revolution" was given by
 - (1) Dr. Norman Borlaug
 - (2) Dr. M.S. Swaminathan
 - (3) Dr. William Gande
 - (4) Sada Shiv Rao
- 104. After independence, recognizing the importance of estimate of National Income and its various components, the Government of India appointed the National Income committee in 1949. Who was the chairman of this committee?
 - (1) Dadabhai Naroji
 - (2) Prof. V.K.R.V. Rao
 - (3) P.C. Mahalanobis
 - (4) C.D. Deshmukh
- 105. Who invented 'computer laptop'?
 - (1) Alain Kay
 - (2) Charles Babbage
 - (3) Q. Daimler
 - (4) Lacques Nicolas Conte
- 106. The system of judicial review originated in
 - (1) India

(2) Germany

- (3) Russia (4) U.S.A.
- 107. Le Corbusier, the architect of Chandigarh was a national of
 - (1) France
 - (2) Switzerland
 - (3) Portugal
 - (4) Netherlands
- 108. The West to East extension of the Himalayas is from
 - (1) Nanga Parbat to Namcha Bar-
 - (2) Rokaposhi to Lohit river
 - (3) K2 to Chomoithari
 - (4) Indus gorge to Dihang gorge
- 109. The philosophy of Laissez faire is identified with
 - (1) Welfare state
 - (2) Socialist state
 - (3) Gandhian state
 - (4) Industrial state
- 110. Who among the following nonmembers can take part in the proceedings of the Indian Parliament without the right to vote?
 - (1) Comptroller and Auditor General of India
 - (2) The Chief Justice of India
 - (3) Attorney General of India
 - (4) Ex-Speaker of Lok Sabha

English Language

Directions (111-115): Each sentence has one or two blanks. Choose the word or set of words that best completes the sentence meaningfully.

- 111. He went to the library to find that it was closed.
 - (1) seldom
- (2) never
- (3) only
- (4) solely
- 112. The ties that bind us together in common activity are so that they can disappear at any moment.
 - (1) tentative
- (2) tenuous
- (3) consistent
- (4) restrictive
- 113. Her reaction to his proposal was She rejected it
 - (1) inevitable vehemently
 - (2) subtle violently
 - (3) clever abruptly
 - (4) sympathetic angrily
- 114. His directions misled us we did not know which of the two roads to take.
 - (1) complicated (2) ambiguous
 - (3) narrow
- (4) fantastic
- 115. It would be difficult for one so to believe that all men are equal irrespective of caste, race and religion.
 - (1) emotional
 - (2) democratic
 - (3) intolerant
- (4) liberal

Directions (116-120): In each of the following sentences four words or phrases have been bold. Only one bold part in each sentence is not accepted in standard English. Identify that part and mark its number 1, 2, 3 or 4 as your answer.

- 116. Gaze for a thing /(1) that are not/ (2) available easily/(3) in the county is a universal phenomenon/ (4).
- 117. It is foolish to be expecting/(1) one person to be like another/ (2) person, for/(3) each individual is born/(4) with his characteristics traits.
- 118. The tendency to believe/(1) that/(2) man is inherently dishonest is something that/(3) will decried/(4).
- 119. I have not come across/(1) very few people/(2) who/(3) think of thing beyond/(4) their daily work.
- 120. He managed to board/(1) the running train/(2) but all his luggages/(3) was/(4) left on the station.

Directions (121-125): Select the pair of words which are related in the same way as the capitalised words are related to each other.

121. SCALES : JUSTICE : :

- (1) weights: measures
- (2) laws : courts
- (3) torch : liberty
- (4) launch: peace
- 122. HOBBLE : WALK : :
 - (1) gallop: run
 - (2) stammer: speak
 - (3) stumble: fall(4) sniff: smell
- 123. FRAYED : FABRIC : :
 - (1) watered: lawn
 - (2) renovated: building
 - (3) thawed: ice
 - (4) worn: nerves
- 124. YOLK : EGG : :
 - (1) rind: melon (2) nucleus: cell
 - (3) stalk : corn (4) web : spider
- 125. BAMBOO : SHOOT : :
 - (1) bean: sprout
 - (2) pepper : corn
 - (3) oak : tree
 - (4) holly: sprig

Directions (126-130): For each of the following capitalized words, four words or phrases are given of which only one is synonymous with the given word. Select the synonym.

- 126. DEFER
 - (1) respect
- (2) dislike
- (3) postpone
- (4) disrespect

(4) improper

- 127. DUBIOUS (1) clear
- (2) undoubtedly
- (3) hesitant
- (4) doubtful
- 128. COARSE
 - (2) rough (1) impolite
- (3) polished 129. PROXIMITY
 - (2) aloofness (1) nearness
 - (3) completely (4) nearly
- 130. ABSTAIN
 - (1) stay
- (2) tempt
- (3) refrain
- (4) pardon

Directions (131-135): Fill in the blanks by selecting appropriate alternative.

- 131. I met him only a week
 - (1) back
- (2) past
- (3) ago
- (5) previous
- 132. Lovely asked me
 - (1) why are you angry?
 - (2) why I am angry?
 - (3) why I was angry.
 - (4) why was I angry?
- 133. Even after repeated warnings, he to office on time.

- (1) never come
- (2) never comes
- (3) is never coming
- (4) have never come
- 134. He told his wife that from Germany.
 - (1) he will like to visit France
 - (2) he was liking to visit France
 - (3) he would like to visit France
 - (4) he is liking to visit France
- 135. Some people can even with murder.
 - (1) get on
- (2) get out
- (3) get off
- (4) get away
- Directions (136- 140) : Choose the correct antonym from the choices for each of the following capitalised words:
- 136. INDIFFERENT
 - (1) curious
- (2) varied (4) uniform
- (3) alike 137. DISCREET
 - (1) wise
- (2) diplomatic (4) careless
- (3) prudent
- 138. OBSOLETE
 - (2) ancient (1) free (3) current (4) cultured
- 139. RATIONAL
 - (1) sound
- (2) insane
- (3) judicious
- (4) sensible
- 140. SCEPTICAL
 - (1) doubtful
 - (2) convinced (3) questioning (4) cinic

Answers

1.	(2)	2. (4)	3. (1)	4. (3)
5.	(2)	6. (4)	7. (2)	8. (4)
9.	(3)	10. (1)	11. (2)	12. (4)
13.	(1)	14. (2)	15. (4)	16. (3)
17.	(2)	18. (1)	19. (4)	20. (4)
21.	(2)	22. (4)	23. (1)	24. (3)
25.	(2)	26: (2)	27. (4)	28. (3)
29.	(4)	30. (2)	31. (3)	32. (3)
33.	(1)	34. (1)	35. (3)	36. (4)
37.	(1)	38. (3)	39. (2)	40. (2)
41.	(3)	42. (1)	43. (2)	44. (2)
45.	(4)	46. (1)	47. (4)	48. (3)
49.	(1)	50. (3)	51. (2)	52. (3)
53.	(1)	54. (3)	55. (2)	56. (4)
57.	(1)	58. (1)	59. (4)	60. (2)
61	(2)	62. (3)	63. (2)	64. (1)
65	. (4)	66. (1)	67. (4)	68. (3)
69	. (3)	70. (3)	71. (3)	72. (2)

73. (4)	74. (4)	75 . (3)	76. (2)
77. (4)	78. (2)	79. (4)	80. (1)
81. (3)	82. (4)	83. (2)	84. (3)
85. (1)	86. (4)	87. (2)	88. (3)
89. (1)	90. (1)	91. (1)	92. (1)
93. (3)	94. (2)	95. (3)	96. (4)
97. (1)	98. (4)	99. (3)	100. (3)
101. (1)	102. (2)	103. (3)	104. (3)
105. (1)	106. (4)	107. (1)	108. (1)
109. (4)	110. (3)	111. (3)	112. (2)
113. (3)	114. (2)	115. (3)	116. (2)
117. (1)	118. (4)	119. (2)	120. (3)
121. (1)	122. (2)	123. (3)	124. (2)
125. (4)	126. (3)	127. (4)	128. (2)
129. (1)	130. (3)	131. (3)	132. (3)
133. (2)	134. (3)	135. (4)	136. (1)
137. (4)	138. (3)	139. (2)	140. (2)

Explnations

- 1. (2) Games Committee
 - \Rightarrow B, G, F/I

Food Service Committee

⇒ C, D, E/I

Entertainment Committee

⇒ H. F/I. A

Therefore, D must serve on the Food Service Committee.

2. (4) A and B connot serve on the same Committee. Therefore option (1) is invalid.

D must serve with C on the same Committee . Therefore, options (2) and (3) are invalid.

- 3. (1) Games Committee
 - \Rightarrow B. F. E/I

Food Service Committee

⇒ A. G. E/I

Entertainment Committee

- \Rightarrow C, D, H
- 4. (3) Games Committee
 - \Rightarrow A, G, E/I

Food Service Committee

 \Rightarrow F. B. E/I

- Entertainment Committee \Rightarrow C, D, H
- 5. (2) Games Committee
 - \Rightarrow C, D, A/E/G

Food Service Committee

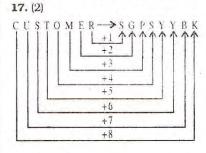
 \Rightarrow B, G, F/E

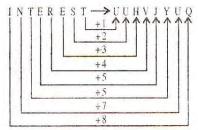
Entertainment Committee

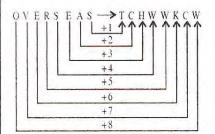
 \Rightarrow I, H, F/A

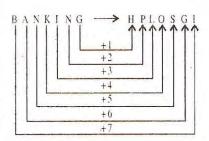
- 6. (4) TODAY
- 7. (2) POLICE
- 8. (4) ACCEPT
- 9. (3) SILVER
- 10. (1) SERVICE
- 11. (2) Ice implies Coolness. Similarly, Earth implies Weight.
- 12. (4) Coconut remains inside the Shell. Similarly, letter is kept in envelope.
- 13. (1) Income is considered Profit. Similarly, Expenditure is consid-
- 14. (2) Much is used for quantity and many is used for number. Similarly, measure is used for quantity and count is used for number.
- 15. (4) Mystery is solved with the help of a Clue. Similarly, Warning is issued in case of a Danger.
- 16. (3) The letters at odd places are written in Capital Letters and the letters at even places are written in small letters. Discard last three letters in each word, i.e., dAy.

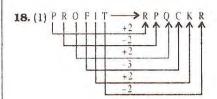
M	0	n			
1	1	1			
13	15	14			
t	U	E	S		
Ţ	1	1	1		
20 W	21	5	19		
W	21 E	d	N	E	S
1	1	1	1	1	1
23	5	4	14	5	19
t	h	U	r	S	
\downarrow	1	1	1	į.	
20	8	21	18.	19	

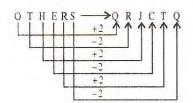


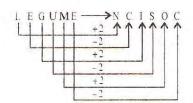


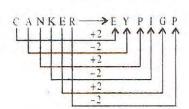




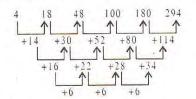








- 19. (4) Except in letter group SFXP-MG, in all others there is/are one or two Vowels.
- 20. (4) $I \xrightarrow{+14} W M \xrightarrow{+6} S$ $F \xrightarrow{+14} T \qquad J \xrightarrow{+11} U$



22. (4) There are two alternating series.

1 × 3 = 3 and 3 × 5 = 15
E - D = 1; K - H = 3, K - G = 4
2 × 4 =
$$\begin{bmatrix} 8 \end{bmatrix}$$
 and 8 × 6 = 48
F - D = 2, $\begin{bmatrix} T - Q = 3 \end{bmatrix}$, K - F = 5

23. (1)
$$M \xrightarrow{+3} P \xrightarrow{+3} S \xrightarrow{+3} V$$

 $4 \xrightarrow{+3} 7 \xrightarrow{+3} 10 \xrightarrow{+3} 13$
 $T \xrightarrow{-3} 0 \xrightarrow{-3} N \xrightarrow{-3} K$

$$R \xrightarrow{+2} T \xrightarrow{+2} V \xrightarrow{+2} X \xrightarrow{+2} Z$$

$$5 \xrightarrow{+1} 6 \xrightarrow{+3} 9 \xrightarrow{+6} 15 \xrightarrow{+10} 25$$

$$P \xrightarrow{-3} M \xrightarrow{-3} J \xrightarrow{-3} G \xrightarrow{-3} D$$

 $7 \xrightarrow{+3} 10 \xrightarrow{+3} 13 \xrightarrow{+3} 16$

25. (2)
$$D \xrightarrow{+3} G \xrightarrow{+4} K \xrightarrow{+5} P$$

 $G \xrightarrow{+4} K \xrightarrow{+5} P \xrightarrow{+6} V$
 $K \xrightarrow{+5} P \xrightarrow{+6} V \xrightarrow{+7} C$
 $O \xrightarrow{+3} 3 \xrightarrow{+5} 8 \xrightarrow{+7} 15$

26. (2) According to question, the new English Alphabet series would be:

27. (4) According to question, the new English Alphabet series would be:

28. (3) MEET
$$\Rightarrow$$
 EEMT

DEAF \Rightarrow ADEF

ROAD \Rightarrow ADOR

CODE \Rightarrow CDEO

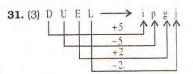
LACK \Rightarrow ACKL

ACKL \rightarrow ADEF \rightarrow ADOR

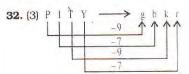
29. (4)

 $H \xrightarrow{+3} K \xrightarrow{+3} N \xrightarrow{-7} G \xrightarrow{+12} S \xrightarrow{+4} W$ $F \xrightarrow{+4} 1 \xrightarrow{+4} M \xrightarrow{+4} O \xrightarrow{+5} V \xrightarrow{+4} Z$ $S \xrightarrow{+2} U \xrightarrow{+3} X \xrightarrow{+3} A \xrightarrow{+3} D \xrightarrow{+2} F$ $R \xrightarrow{+4} V \xrightarrow{+4} Z \xrightarrow{+4} D \xrightarrow{+4} H \xrightarrow{+4} L$

$$\begin{split} M & \xrightarrow{-6} G \xrightarrow{+15} V \xrightarrow{+10} F \xrightarrow{+5} K \\ P & \xrightarrow{-6} J \xrightarrow{+14} X \xrightarrow{-16} H \xrightarrow{+5} M \\ E & \xrightarrow{+12} Q \xrightarrow{+9} Z \xrightarrow{+6} F \xrightarrow{+3} I \\ G & \xrightarrow{+16} W \xrightarrow{+12} I \xrightarrow{+8} Q \xrightarrow{+4} U \end{split}$$

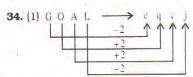


 $U \Rightarrow p$



 $Y \Rightarrow r$

33. (1) The code consists of opposite letter and two letters ahead.



35. (3)

$$S \xrightarrow{+3} V L \xrightarrow{+3} 0 A \xrightarrow{+3} d P \xrightarrow{+3} S$$

 $L \xrightarrow{-3} p L \xrightarrow{-3} i L \xrightarrow{-3} x L \xrightarrow{-3} m$

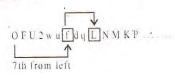
36. (4) This question is based on the pairs of opposite Letters.

Series I: MN, UF, KP, RI, SH = 10 letters

Series II: There is no such capital

37. (1) According to question,

Series I:



Series II:

38. (3) Series I:

uw2UFOKP6h [s] (14) SHV7gc8RI Series II:

J B o p i r 5 v 9 T Q Y (10) e m n (11) D A C b

39. (2) Except emb. all other groups contain consecutive letters.

40. (2) Digit Vowel Consonant Such combinations are:

(41-44):

(A+B+C)'s 1 day's work = $\frac{1}{20}$...(i)

Let (B + C) complete the work in x

 $\therefore (B + C)'s 1 day's work = \frac{1}{v} ...(ii)$ and (A + B) will complete the work

in
$$\frac{4x}{3}$$
 day

 \therefore (A + B)'s 1 day's work = $\frac{3}{4x}$...(iii)

Let (A + C) complete the work in y

$$\therefore (A + C)'s 1 day's work = \frac{1}{u} ...(iv)$$

(B + C) will complete the work in

$$\frac{5y}{4}$$
 days

$$\therefore (B + C)$$
's 1 day's work = $\frac{4}{5y}$...(v)

From equations (ii) and (v)

$$\frac{1}{x} = \frac{4}{5y} \implies 4x = 5y \qquad \dots \text{(vi)}$$

Adding (ii), (iii) and (iv)

2 (A + B + C)'s 1 day's work

$$= \frac{1}{x} + \frac{3}{4x} + \frac{5}{4x}$$

$$= \frac{4+3+5}{4x} = \frac{3}{x}$$

$$\therefore (A + B + C) \text{'s } 1 \text{ day s work} = \frac{3}{2x}$$

$$\therefore \frac{3}{2x} = \frac{1}{20}$$
 [From equation (i)]

$$\Rightarrow x = 30 \text{ and } y = 24$$

$$\therefore (B + C)$$
's 1 day's work = $\frac{1}{30}$

$$(A + B)'s 1 day's work = \frac{1}{40}$$

$$(A + C)'s 1 day's work = \frac{1}{24}$$

$$\therefore \text{ A's 1 day's work} = \frac{1}{20} - \frac{1}{30}$$

$$= \frac{3-2}{60} = \frac{1}{60}$$

A will complete the work in 60 days

∴ B's 1 day's work =
$$\frac{1}{20} - \frac{1}{24}$$

$$= \frac{6-5}{120} = \frac{1}{120}$$

:. B will complete the work in 120 days

$$\therefore \text{ C's 1 day's work } = \frac{1}{20} - \frac{1}{40}$$

$$= \frac{2-1}{40} = \frac{1}{40}$$

C will complete the work in 40 days **41.** (3) A alone can finish the work in 60 days.

$$\Rightarrow$$
 24 × 20 ÷ (24 – 20)

$$\Rightarrow 24 \times 20 \div 4$$

$$\Rightarrow$$
 24 × 5 = 120

$$\Rightarrow$$
 30 × 20 (30 + 20)

$$\Rightarrow$$
 30 × 20 × 50 = 30,000

$$\Rightarrow$$
 30 × 20 ÷ (30 - 20)

$$\Rightarrow$$
 30 × 20 ÷ 10 = 60

42. (1) B and C together can complete the work in 30 days.

$$\Rightarrow$$
 20 × (3 + 3) ÷ 4

$$\Rightarrow$$
 20 × 6 ÷ 4 = 30

$$\Rightarrow$$
 20 × (12 – 6) ÷ 3

$$\Rightarrow$$
 20 × 6 ÷ 3 = 40

$$\Rightarrow$$
 20 × (12 - 6) ÷ 5

$$\Rightarrow$$
 20 × 6 ÷ 5 = 24

$$\Rightarrow$$
 40 × 20 ÷ (40 - 20)

$$\Rightarrow$$
 40 × 20 ÷ 20 = 40

43. (2) A and B together can complete the work in 40 days.

$$\Rightarrow$$
 20 × (3 + 3) ÷ 4

$$\Rightarrow$$
 20 × 6 ÷ 4 = 30

20
$$\bigcirc$$
 (12 \square 6) \bigcirc 5 = 24

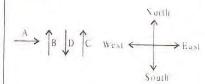
$$\Rightarrow$$
 24 × (12 - 6) ÷ 3

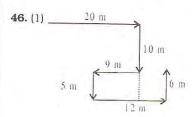
$$\Rightarrow 24 \times 6 \div 3 = 48$$

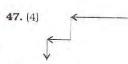
44. (2) A and C together can complete the work in 24 days.

$$\Rightarrow 20 \times 6 \div 3 = 40$$

45. (4)







48. (3) Thursday + 7 ⇒ Thursday
Today is Thursday
Day after tomorrow ⇒ Saturday
Saturday - 3 ⇒ Wednesday
Wednesday - 3 ⇒ Sunday

Total number of boys in the row = 16 + 17 - 1 = 32

50. (3) Second half means 68 vehicles. Arrangement of cars and sccoters 2 + 3 + 4 + 5 + 16 + 1 = 136

$$2 + 3 + 4 + 5 \dots + 11 + 3 = 68$$

 $9 + 13 + 14 + 15 + 16 + 1 = 68$

The number of scooters in the second half of the row.

$$= 9 + 12 + 13 + 14 + 15 = 63$$

51. (2) The number nine is a perfect square.

52. (3)
$$4 \times 5 \times 7 = 140$$

$$3 \times 5 \times 8 = 120$$

$$2 \times 5 \times 8 = 80$$

$$\frac{110}{15}$$
 = 7.33

53. (1)
$$2 + 4 = 6$$
 (246)

$$2 + 5 = 7 (257)$$

$$3 + 5 = 8 (358)$$

$$1 + 4 = 5 (145)$$

$$2 + 3 = 5 (235)$$

$$3 + 2 = 5 (325)$$

54. (3)
$$248 \Rightarrow 2 \times 4 = 8$$

$$326 \Rightarrow 3 \times 2 = 6$$

$$392 \Rightarrow 3 \times 9 = 27$$

$$414 \Rightarrow 4 \times 1 = 4$$

55. (2) Except 152, all others are multiples of 6.

$$156 = 26 \times 6$$

$$72 = 12 \times 6$$

$$42 = 7 \times 6$$

56. (4) Both the assumptions are implicit in the statement. If achieving economic development is not desirable, the statement is meaningless. Again, it is said that people should work hard. It implies that working hard is possible.

57. (1) Only assumption I is implicit in the statement. The statement clearly shows that the man is poor as he is too industrious.

58. (1) Any warning is issued in case of a danger. Therefore, it can be assumed that using lift is not always safe.

Assumption II is not implicit in the statement. If visitors do not want to use the lift, the warning is meaningless.

59. (4) Both the assumptions are implicit in the statement.

60. (2) Only assumption II is implicit in the statement. If rates are independent of amenities provided, then statement becomes meaningless

61. (2) Let the capital be Rs. = x. According to the question,

$$\frac{x \times 8 \times 1}{100} - x \times \frac{31}{4} \times \frac{1}{100} = 61.50$$

$$\Rightarrow \frac{8x}{100} - \frac{31x}{400} = 61.50$$

$$\Rightarrow 8x - \frac{31x}{4} = 61.50 \times 100$$

$$\Rightarrow \frac{32x - 31x}{4} = 6150$$

$$\Rightarrow \frac{x}{4} = 6150$$

$$\Rightarrow x = 4 \times 6150$$
$$= Rs. 24600$$

62. (3) Amount

= Principal
$$\left(1 + \frac{\text{Rate}}{100}\right)^{\text{Time}}$$

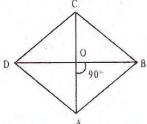
$$= \text{Rs.} \left[5600 \left(1 + \frac{10}{100} \right)^{1\frac{1}{2}} \right]$$

= Rs.
$$\left[5600 \left(1 + \frac{10}{100} \right) \times \left(1 + \frac{\frac{1}{2} \times 10}{100} \right) \right]$$

= Rs.
$$\left(5600 \times \frac{11}{10} \times \frac{21}{20}\right)$$
 = Rs.6468

:. Compound interest = Rs. (6468 - 5600) = Rs. 868

63. (2)



Halves of diagonals and side of a rhombus form a right angled triangle with side AB as hypotenuse. Let another diagonal = 2x cm.

$$\therefore x^2 + \left(\frac{8}{2}\right)^2 = 5^2$$

$$\Rightarrow x^2 = 5^2 - 4^2$$
$$= 25 - 16 = 9$$

$$\therefore x = \sqrt{9} = 3$$

∴ Other diagonal
 = 2 x 3 = 6 cm.

:. Area of the rhombus

$$=\frac{1}{2}\times d_1\times d_2$$

$$= \frac{1}{2} \times 8 \times 6$$

= 24 sq.cm.

64. (1) Volume of the gold

$$= \left(\frac{1}{2} \times 100 \times 100 \times 100\right) \text{ eubic cm}.$$

Area of the gold sheet

= 1 hectare

= 10000 sq. metre

 $= (10000 \times 100 \times 100)$ sq. cm.

:. Thickness of the sheet

$$= \frac{1 \times 100 \times 100 \times 100}{2 \times 10000 \times 100 \times 100}$$

= 0.005 cm

65. (4) Volume of the hemispherical

$$bowl = \frac{2}{3}\pi r^3$$

$$= \left(\frac{2}{3}\pi \times 9 \times 9 \times 9\right) \text{ cubic cm.}$$

= 486π cubic cm.

Volume of a bottle = $\pi r_1^2 h$

$$= \left(\pi \times \frac{3}{2} \times \frac{3}{2} \times 4\right) \text{cubic cm}.$$

= 9π cubic cm.

.. Number of bottles

$$=\frac{486\pi}{9\pi}=54$$

66. (1) A number divisible by 99 must be divisible by 9 as well as 11. Clearly, 114345 is divisible by both 9 and 11 i.e. 99.

67. (4) Let quotient = Q and remainder = R

der = R

$$\therefore$$
 Divisor = 10Q = 5R
Now, R = 46 \Rightarrow 10Q = 5 \times 46

$$\Rightarrow Q = \frac{5 \times 46}{10} = 23$$

Now, Q = 23, R = 46and divisor = $5 \times 46 = 230$

∴ Dividend = Divisor × quotient + Remainder

$$= 230 \times 23 + 46$$

68. (3) Let the value of NSC bought in the first year be Rs. a. According to the question, We get an Arithmetic Series whose first term = a, common difference (d) = 100, number of terms = n = 10 and sum = Rs. 54,500

:. $S = \frac{n}{2} [2a + (n-1) d]$

$$\Rightarrow 54500 = \frac{10}{2} [2a + (10 - 1) \times 100]$$

$$\Rightarrow 2\alpha + 900 = \frac{54500}{5} = 10900$$

$$\Rightarrow$$
 2a = 10900 - 900 = 10000

$$\Rightarrow a = \frac{10000}{2} = \text{Rs. } 5000$$

69. (3) Total distance covered

$$= 8 + 2 \times 4 + 2 \times 2 + 2 \times 1 + 2 \times$$

$$\frac{1}{2}$$
 + to 10 terms

$$= 8 + (8 + 4 + 2 + 1 + \frac{1}{2} + \dots$$
to

9 terms)

It is a. G.P. except the first term. Its first term (a) = 8 and common

ratio
$$(r) = \frac{1}{2}$$
.

$$\therefore S = 8 + \frac{a(1-r^n)}{1-r}$$

$$= 8 + \frac{8\left(1 - \frac{1}{2^9}\right)}{1 - \frac{1}{2}}$$

$$= 8 + 16 \times \left(1 - \frac{1}{512}\right)$$

$$= 8 + 16 \times \frac{511}{512} = 8 + 15.969$$

= 23.969 metre

70. (3) LCM

$$= \frac{\text{LCM of } 1, 5, 2, 4}{\text{HCF of } 3, 6, 9, 27} = \frac{20}{3}$$

71. (3)
$$\frac{4.8438}{0.069} = 70.2$$

$$= \frac{3467 - 34}{9900} + \frac{1333 - 13}{9900}$$

$$=\frac{3433+1320}{9900}=\frac{4753}{9900}$$

$$=\frac{4801-48}{9900}=0.48\overline{01}$$

73. (4) Total monthly salary bill = Rs. [5(5 × 1100 + 3 × 1700 + 3000 + 3500) + 30 (3 × 1100 + 3000 + 3500)

 $3000 + 2500) + 20 (3 \times 1100 + 1700 + 3000)]$

- = Rs. [5(5500 + 5100 + 3000 + 2500) + 20 (3300 × 1700 + 3000)]
- = Rs. (80500 + 160000)
- = Rs. 240500
- 14. (4) Required fraction

$$= \frac{1}{4} + \frac{1}{6} - 3 \times \frac{1}{12}$$

$$= \frac{1}{4} + \frac{1}{6} - \frac{1}{4} = \frac{1}{6}$$

- 75. (3) 6 0.4000 0.63 6 36 123 400 3 369 126 3100
 - $\sqrt{0.4} = 0.63$
- 6. (2) The numbers of points term scored = 8 × 84 92 + 85 = 672 92 + 85 = 665
- 77. (4) Let the three numbers be a, b and c respectively.

 Now.

$$a:b=2:3$$

 $b:c=5:3$

$$\therefore a:b:c=2\times 5:3\times 5:3\times 3\\ =10:15:9$$

According to the question,

$$a+b+c=136$$

$$\Rightarrow$$
 10x + 15x + 9x = 136

$$\Rightarrow$$
 34 $x = 136$

$$\Rightarrow x = \frac{136}{34} = 4$$

$$b = 15x = 15 \times 4 = 60$$

18. (2) According to the question,

$$B - A = A - C$$

$$\Rightarrow$$
 2 A = B + C = 48

$$\Rightarrow$$
 A = $\frac{48}{2}$ = 24 years

$$9. (4) \left[3^{m^2} \div \left(3^m \right)^2 \right]^{\frac{1}{m}} = 81$$

$$\Rightarrow \left(3^{m^2} \div 3^{2m}\right)^{\frac{1}{m}} = 81$$

$$\Rightarrow \left(\frac{3^{m^2}}{3^{2m}}\right)^{\frac{1}{m}} = 81$$

$$\Rightarrow \left(3^{m^2-2m}\right)^{\frac{1}{m}} = 81$$

$$\Rightarrow 3^{m-2} = 81 = 3^4$$

$$\Rightarrow m-2=4$$

$$\Rightarrow m = 6$$

- **80.** (1) p = 6q
 - \therefore So, q is less than p by 5q. Note that q has been compared with p.
 - :. Required percentage

$$= \left(\frac{5q}{p} \times 100\right)\%$$

$$= \left(\frac{5q}{6q} \times 100\right) \% = 83\frac{1}{3}\%$$

- **81.** (3) Let the business value changes from Rs. x to Rs. y.
 - :. 4% of x = 5% of y

$$\Rightarrow \frac{4x}{100} = \frac{5y}{100}$$

$$\Rightarrow y = \frac{4}{5}x$$

Change in business

$$= \left(x - \frac{4}{5}x\right) = \frac{x}{5}$$

.. Percentage slump in business

$$=\frac{x}{5} \times \frac{1}{x} \times 100 = 20\%$$

82. (4) CP of 65 kg of the mixture = Rs (35 x 9 50 + 30 x 10 50

= Rs.
$$(35 \times 9.50 + 30 \times 10.50)$$

= Rs. $(332.5 + 315)$

- = RS. (332.5 + 31
- = Rs. 647.5
- :. Rate per kg of the mixture

$$= Rs. \left(\frac{647.5}{65} \right)$$

: Required rate

$$= \frac{647.5}{65} \times \frac{135}{100} \approx \text{Rs. } 13.50/\text{kg}$$

83. (2) After a discount of 20% cost of the book = 80% of Rs. 150

$$= \frac{150 \times 80}{100} = \text{Rs. } 120$$

Let the additional discount be x%Second discount

$$= 120 - 108 = Rs. 12$$

$$x\%$$
 of Rs. $120 = 12$

$$\Rightarrow \frac{120 \times x}{100} = 12$$

$$\Rightarrow x = \frac{12 \times 100}{120} = 10\%$$

- **84.** (3) $a:b:c=\frac{1}{2}:\frac{1}{3}:\frac{1}{4}$
 - $\therefore \text{ The longest side} = \frac{6}{13} \times 104$
- 85. (1) Gaining ratio

$$= \left(\frac{3}{5} - \frac{4}{9}\right) : \left(\frac{2}{5} - \frac{2}{9}\right)$$

$$=\frac{27-20}{45}:\frac{18-10}{45}=7:8$$

86. (4) 3 women \equiv 2 men \Rightarrow 21 women \equiv 14 men

$$\begin{array}{ccc} & 14:15 \\ \therefore & 6:8 \end{array}$$
 :: 21: x

$$\therefore 14 \times 6 \times x = 15 \times 8 \times 21$$

$$\Rightarrow x = \frac{15 \times 8 \times 21}{14 \times 6} = 30 \text{ days}$$

87. (2) Average speed = $\frac{2xy}{x+y}$

(when the same distances are covered)

$$= \left(\frac{2 \times 24 \times 36}{24 + 36}\right) \text{ kmph}$$

$$=\frac{2\times24\times36}{60}$$
 = 28.8 kmph

88. (3) $2 \text{ kmph} = \left(\frac{2 \times 5}{18}\right) \text{ metre/sec.}$

$$=\frac{5}{9}$$
 metre/sec.

and 4 kmph = $\frac{4 \times 5}{18}$ metre/sec.

$$=\frac{10}{9}$$
 metre/sec.

Let the length of the train be x metre and its speed be y metre/sec.

Then,

$$\frac{x}{y - \frac{5}{9}} = 9$$

⇒
$$9y - 5 = x$$

∴ $9y - x = 5$ (i)

and
$$\frac{x}{y - \frac{10}{9}} = 10$$

$$\Rightarrow 10 (9y - 10) = 9x$$

$$\Rightarrow$$
 90y - 9x = 100 (ii)
By equation (i) × 10 -equation (ii), we have

$$90y - 10x = 50$$

$$90y - 9x = 100$$

- = 50 metre
- **89.** (1) Rate downstream = (15 + 3) kmph = 18 kmph

$$\therefore$$
 Distance covered = $\left(18 \times \frac{12}{60}\right)$ km

= 3.6 km.

- **90.** (1) Let the number of 10 paise coins be *x*.
 - .. Number of 25 paise coins

= 180 - x

According to the question,

$$x \times 10 + 25 (180 - x)$$

$$= 36.90 \times 100$$

$$\Rightarrow$$
 10x + 4500 - 25x = 3690

$$\Rightarrow$$
 15x = 4500 - 3690 = 810

$$\Rightarrow x = \frac{810}{15} = 54$$

- :. Number of 10 paise coins = 54
- 116. (2) Here 'thing' is Singlular. Hence, 'that is not' should be used.
- 117. (1) The form of infinitive is: To + Verb (Plural). Hence, replace 'to be expecting' by 'to expect'.
- 118. (4) The passive form of Future Indefinite is : Subject + shall be/ will be + $\rm V_3$

Hence, replace 'something that will decried' by 'something that will be decried /something that should be decried'.

- 119. (2) Replace group of words 'very few people' by a few /many people'.
- **120.** (3) Replace the word 'luggages' by 'luggage'.
- **122.** (2) **Hobble** means : to walk with difficulty.

Stammer means: to speak with difficulty.

- 124. (2) Yolk means: the round yellow part in the middle of an egg.
 Nucleus means: the central part of some cells.
- **125.** (4) Sprig means: a small stem with leaves on it from a plant or bush e.g. sprig of holly.
- **126.** (3) The word **Defer (Verb)** means: to delay something until a later time: put off.

Look at the sentence:

The department deferred the decision for eight months.

Hence, the words **Defer** and **Postpone** are synonymous.

127. (4) The word **Dubious** (Adjective) means: doubtful; not certain and slightly suspicious about something.

Look at the sentence:

He was rather dubious about the whole idea.

Hence, the words **Dubious** and **Doubtful** are synonymous.

- **128.** (2) The word **Coarse (Adjective)** means: rough; rude and offensive; vulgar.
- **129.** (1) The word **Proximity (Noun)** means: the state of being near somebody/something.

Look at the sentence:

The area has a number of schools in close proximity to each other. Hence, the words **Proximity** and **Nearness** are synonymous.

130. (3) The word **Abstain (Verb)** means: to stay away from something.

Look at the sentence:

The workers who abstained from work yesterday have been suspended.

The word **Refrain (Verb)** means desist from; to stop yourself from doing something.

Look at the sentence:

They have refrained from criticizing the government in public. Hence, the wrods **Abstain** and **Refrain** are synonymous.

136. (1) The word **Indifferent (Adjective)** means: having or showing no interest in somebody/something; not very good.

The word **Curious (Adjective)** means: having a strong desire

to know about something; inquisitive.

Hence, the words **Indifferent** and **Curious** are antonymous.

137. (4) The word Discreet (Adjective) means: careful in what you say or do; tactful.

Look at the sentence:

He was always very discreet about his love affairs.

Hence, the words **Discreet** and **Careless** are antonymous.

- 138. (3) The word Obsolete (Adjective) means: no longer used because something new has been invented; out of date.

 Hence, the words Obsolete and Current are antonymous.
- **139.** (2) The word **Rational (Adjective** means: based on reason rather than emotions; reasonable.

Look at the sentence:

There is no rational explanation for his action.

The word **insane** (Adjective means: seriously mentally ill an unable to live in normal society very stupid, crazy or dangerous. The words **Rational** and **Insan** are antonymous.

140. (2) The word Sceptical (Adjective) means: having doubts that a claim or statement is true of that something will happen.

Look at the sentence :

I am sceptical about his chance of winning.

The word **Convinced** (**Adjective** means: completely sure about something.

Look at the sentence:

He is convinced of her innocency Hence, the words **Sceptical** and **Convinced** are antonymous.

