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LIC ADO EXAM 2009 SOLVED PAPER

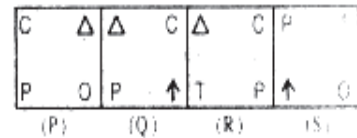
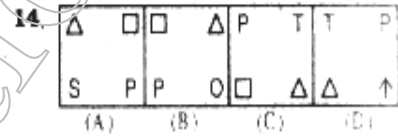
REASONING ABILITY

- A man moves 100 m towards east, he turns to his right and moves 100m. Then he moves 50m turning to his left and again turns to his left and moves 50m. Finally he turns to his left and moves 150m. How far is he from the starting point ?
 (1) 0 m (2) 50 m
 (3) 100 m (4) 150 m
- In a certain code language TEACHER is written as VGCEJGT. How will CHILDREN be written in that code language ?
 (1) EJKNFTGP
 (2) EJKNFGTO
 (3) EJKNEGTP
 (4) None of these
- In a certain code language CALANDER is written as CLANAEDR. How will CIRCULAR be written in that code language ?
 (1) CRUICALR (2) ICRCUAR
 (3) CRUICLRA (4) ICRCLURA
- Which one set of letters when placed sequentially at the gaps in the given letter series shall complete it ?
 ab_c_a_aa_ac_ac_
 (1) abcbca (2) acbcb
 (3) abcbba (4) bcabab
- In the following question a group of letters is given. Each letter bears certain mark (A, B, C, D). Four combinations of marks are then given. Select that combination which would form a meaningful word.
 (A) M (B) E
 (C) I (D) N
 (E) R (F) A
 (1) B, E, F, A, C, D
 (2) C, B, E, D, A, F
 (3) A, F, E, C, D, B
 (4) E, B, A, F, C, D
- In a certain code language the number '13479' is written as 'AQFJL' and '2568' is written as

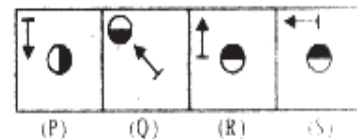
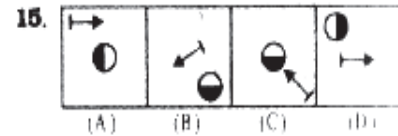
- 'DMPN'. How will '396824' be written in that code language ?
 (1) QLPNDF (2) QLPNMJ
 (3) QLPNMF (4) QLPNMF
- Pointing towards a man Rohit said, "His son is uncle of my son". How is that man related to Rohit ?
 (1) Father (2) Grandfather
 (3) Uncle (4) Brother
 - A and B are married couple. X and Y are brothers to each other. X is brother of A. How is Y related to B ?
 (1) Brother
 (2) Cousin
 (3) Son-in-law
 (4) Brother-in-law
 - In this question first two words have relationship between them. The third word and the word that should come at the place of question mark also have a similar relationship. Identify from among the alternative words below which should come at the place of question mark.
 Country : President :: State : ?
 (1) Member of Parliament
 (2) Member of Legislative Assembly
 (3) Minister
 (4) Governor
 - (A) TRAVERSE
 (B) TREASURE
 (C) TRAPEZE
 (D) TREADLE
 (E) TRAVAIL
 The correct sequence of the words is :
 (1) E, A, B, C, D (2) C, E, A, D, B
 (3) A, B, E, D, C (4) A, E, B, D, C
- Directions (11 - 12) :** In each of the following questions, four words have been given. Three of these are alike in some manner and one is different. Identify the odd one.
- (1) Feather (2) Hair
 (3) Grass (4) Wool

- (1) Telescope
 (2) Telephone
 (3) Tape Recorder
 (4) Transistor
- Find out the missing number 6, 13, 25, 51, 101, ?
 (1) 204 (2) 278
 (3) 203 (4) 254

Directions (14 - 15) : In each of the questions four figures A, B, C and D are given. Which among the figures P, Q, R and S given below to them can continue the series A, B, C, D ?

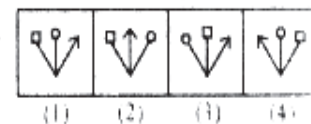
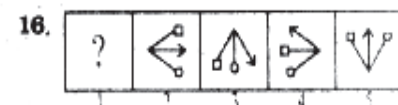


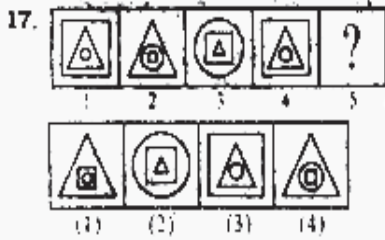
- (1) P (2) Q
 (3) R (4) S



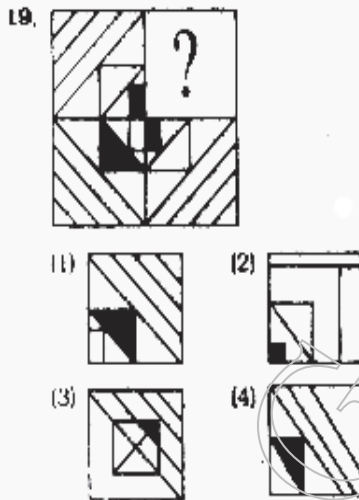
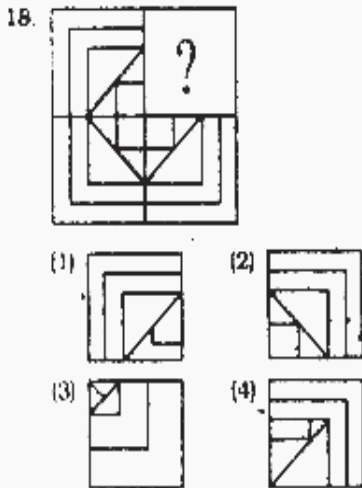
- (1) P (2) Q
 (3) R (4) S

Directions (16 - 17) : In each of the following questions problem figures 1, 2, 3, 4 and 5 constituting a continuous series with a gap marked (?) are given. Which among the figures given below, marked (1), (2), (3), and (4) can fill in the gap ?

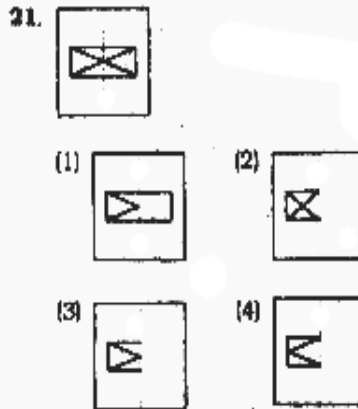
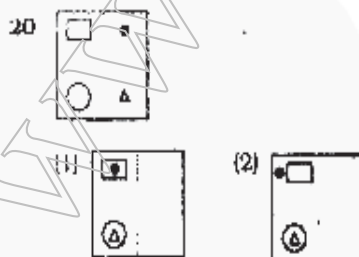




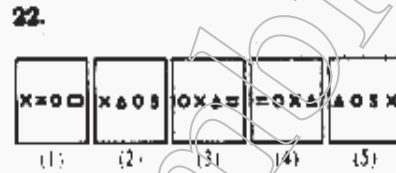
Directions (18 - 19) : In these questions, an incomplete figure is given. Which of the four small figures given below, marked (1), (2), (3) and (4) can complete the given incomplete figure ?



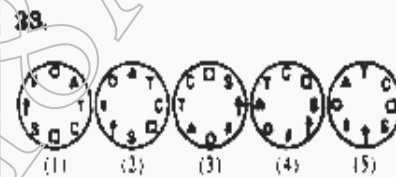
Directions (20 - 21) : In each of the questions, figure drawn on a transparent paper is given below. Which form among the four figures marked (1), (2), (3) and (4) will it take, if it is folded along the dotted line.



Directions (22-23) : In each of the following questions, five figures marked 1, 2, 3, 4 and 5 have been given. The positions of which of the two of these figures should be exchanged to make the figure series a continuous one ?



- (1) (2) and (3)
- (2) (2) and (4)
- (3) (1) and (4)
- (4) (2) and (5)



- (1) (2) and (3)
- (2) (3) and (4)
- (3) (2) and (5)
- (4) (3) and (5)

24. Identify the wrong number which does not fit into the series :
4, 8, 27, 80, 244, 728
(1) 8 (2) 27
(3) 80 (4) 244

25. Find out the missing letters in the following letter series :
F E D A B L K J G H R Q ? ?
(1) MN (2) NP
(3) QP (4) PM

NUMERICAL ABILITY

26. The denominators of two fractions are respectively 5 and 7. The sum of these two fraction is $\frac{41}{35}$. If the numerators of these fraction are interchanged, then the sum becomes $\frac{43}{45}$. Find the fractions :

- (1) $\frac{2}{5}, \frac{4}{7}$ (2) $\frac{3}{5}, \frac{4}{7}$
- (3) $\frac{4}{5}, \frac{2}{7}$ (4) $\frac{3}{5}, \frac{5}{7}$

27. Three numbers are in the ratio 1 : 2 : 3 respectively and their HCF is 12. Find the numbers.

- (1) 4, 18, 12
- (2) 5, 12, 15
- (3) 12, 24, 30
- (4) 12, 24, 36

28. Two trains are about to collide. They are 65 miles apart. The train coming from north is running at 55 miles per hour and the train coming from south is running at 80 miles per hour. How far they would be two minutes before the collision ?

- (1) 4 miles
- (2) 4.5 miles
- (3) 5 miles
- (4) Cannot be determined

29. What is the number, the two times of which is 99 more than the one-half of that number ?

- (1) 74 (2) 64
- (3) 66 (4) 88

30. If 25% of a number is subtracted from another number the second number becomes $\frac{5}{6}$ th of it. What

is the ratio between the first number and the second number ?

- (1) 1 : 3
- (2) 2 : 3
- (3) 3 : 2
- (4) Data inadequate

31. A man gains the selling price of 13 dozen of mangoes by selling 39 dozen of mangoes. Find the gain percent.

- (1) 26% (2) 33%
- (3) 40% (4) 50%

32. The place value of 5 in 0.078543 is
- (1) $\frac{5}{100}$ (2) $\frac{5}{1000}$
 (3) $\frac{5}{10000}$ (4) $\frac{5}{10}$
33. $\frac{(16)^2 \times (12)^2}{192}$ is equal to
- (1) 384 (2) 96
 (3) 192 (4) 209
34. $0.8 \times 0.8 + 0.8 + 8$ is equal to
- (1) 0.74 (2) 1.44
 (3) 0.65 (4) 0.62
35. $\frac{\sqrt{64}}{\sqrt{225}} + \frac{\sqrt{81}}{\sqrt{49}} \times \frac{3}{7}$ is equal to
- (1) $\frac{7}{45}$ (2) $\frac{8}{45}$
 (3) $\frac{11}{45}$ (4) $\frac{6}{45}$
36. Find the HCF of 105, 70, 210
- (1) 70 (2) 5
 (3) 10 (4) 35
37. Find the LCM of $\frac{3}{8}, \frac{9}{16}, \frac{27}{40}$
- (1) $\frac{8}{27}$ (2) $\frac{9}{40}$
 (3) $\frac{27}{8}$ (4) $\frac{27}{80}$
38. Find the smallest number which is completely divisible by 8, 9, 12, 15 and 18 and is a perfect square.
- (1) 900 (2) 14400
 (3) 6400 (4) 3600
39. If 120 is added to 60% of a number, then the number itself is obtained. Find the number.
- (1) 360 (2) 300
 (3) 320 (4) 240
40. A contractor envisages to construct a bridge in 40 days. He employed 100 men on work initially and 100 more men were engaged after 35 days and the work was completed on time. If he had not engaged more men then in how many days the work was to be completed?
- (1) 3 (2) 5
 (3) 6 (4) 9
41. A moneylender lends Rs. 4000 for 3 years to a rural man. The rate of simple interest on some

- part of money is 10% and on the remaining amount it is 12%. He gets Rs. 5350 after three years. Find the amount lent on 12%.
- (1) Rs. 2000 (2) Rs. 2250
 (3) Rs. 2500 (4) Rs. 2750
42. A 2 metre path surrounds a square field. If the area of path is 72 sq.m, then find the area of the field.
- (1) 70 sq.m (2) 68 sq.m
 (3) 49 sq.m (4) 80 sq.m
43. A right angled triangle is inscribed in a circle of radius 10cm and the side of triangle is diameter of the circle. If the perimeter of the triangle is 48cm, find the other two sides of the triangle.
- (1) 13 cm and 15 cm
 (2) 14 cm and 14 cm
 (3) 12 cm and 16 cm
 (4) 10 cm and 18 cm
44. m and n are two integers. If $m^n = 25$ then what is the value of n^m ?
- (1) 4 (2) 10
 (3) 25 (4) 32
45. The decimal equivalent $\frac{36}{10000}$ is :
- (1) 0.0360 (2) 0.0036
 (3) 0.00036 (4) 0.3600
46. $0.006 \times 0.0009 = ?$
- (1) 0.0000054
 (2) 0.000054
 (3) 0.0054000
 (4) 0.0005400
47. Santon invested a sum of Rs. 10,000 at 10% compound interest for 3 years. How much amount will he get after 3 years?
- (1) Rs. 12,310 (2) Rs. 13,310
 (3) Rs. 13,210 (4) Rs. 13,320
48. If a man sells an article for Rs. 1600 he incurs a loss equal to the profit if he sells that article for Rs. 2000. Find the CP of that article.
- (1) Rs. 1800 (2) Rs. 1700
 (3) Rs. 1900 (4) Rs. 1550
49. What is the value of P in equation $P \times 13 = 525720$?
- (1) 44040 (2) 40404
 (3) 40044 (4) 40440
50. A boat covers 40 km downstream in 4 hours and returns in 5 hours upstream. Find the speed of boat in still water.
- (1) 1 kmph (2) 4 kmph
 (3) 9 kmph (4) 6 kmph

GENERAL KNOWLEDGE & CURRENT AFFAIRS

51. Which of the following is referred to as 'Information Highway'?
- (1) Radar (2) Sonar
 (3) Internet (4) None of these
52. Which of the following devices connects computer with telephone?
- (1) Internet (2) Modem
 (3) Intranet
 (4) All of the above
53. The planets revolve round the sun due to
- (1) Frictional Force
 (2) Centrifugal Force
 (3) Inertial Force
 (4) Centripetal Force
54. Who among the following is considered as 'Father of Indian Ballistic Missile Programme'?
- (1) APJ Abdul Kalam
 (2) Dr. HJ Bhabha
 (3) Vikram Sarabhai
 (4) Dr. Kasturirangan
55. What is the source of electrical energy in artificial satellites?
- (1) Solar heat
 (2) Solar radiation
 (3) Solar cell
 (4) None of these
56. The Life Insurance Corporation of India (LIC) has its offices in which of the following countries?
- (1) Fiji
 (2) Mauritius
 (3) United Kingdom
 (4) All of the above
57. Who among the following has written the book titled "Dreams From My Father"?
- (1) Steve Harvey
 (2) YV Reddy
 (3) Barack Obama
 (4) None of these
58. Which of the following is not a plan of the LIC?
- (1) Jeevan Shree
 (2) Jeevan Bodh
 (3) Jeevan Saral
 (4) Jeevan Anurag
59. Which of the following is an ideal LIC Policy for the persons having irregular but good periodical income?

- (1) Bima Nivesh 2005
 (2) Wealth Plus
 (3) Jeevan Tarang
 (4) Jeevan Surabhi
60. Who among the following was the first President of the Council of Scientific and Industrial Research ?
 (1) Lal Bahadur Shastri
 (2) Maulana Azad
 (3) Dr. Radhakrishnan
 (4) Jawahar Lal Nehru
61. Gayatri mantra is dedicated to
 (1) Indra (2) Mitra
 (3) Savitri (4) Varun
62. The capital of Maltrak rulers was
 (1) Vallabhi (2) Besnagar
 (3) Ujjain (4) Gandhar
63. What is the full form of MICR the technique used for clearance of cheques by banks ?
 (1) Magnetic Intelligence Character Recognition
 (2) Magnetic Information Cable Recognition
 (3) Magnetic Insurance Cases Recognition
 (4) Magnetic Ink Character Recognition
64. If the Panchayat is dissolved, the election must be held within
 (1) one month (2) 4 months
 (3) 6 months (4) one year
65. Who among the following is the founder member of World Economic Forum ?
 (1) Klaus Schwab
 (2) Robert Zoellick
 (3) Paul Krugman
 (4) Kenneth Galbraith
66. The Chief Justice of the Supreme Court who gave the concept of 'Public Interest Litigation'
 (1) PN Bhagwati
 (2) KS Hegde
 (3) Prasad Rajendran
 (4) AN Ray
67. The President of India who was associated with the Trade Union Movement
 (1) N Sanjeeva Reddy
 (2) Zakir Hussain
 (3) KR Narayanan
 (4) VV Giri
68. The Central Government received maximum revenue during 2008-09 from which of the following taxes ?

- (1) Income Tax
 (2) Corporation tax
 (3) Custom Duty
 (4) Excise Tax
69. Who among the following won the men's singles title at the French Open tennis 2009 ?
 (1) Robin Soderling
 (2) Andy Murray
 (3) Roger Federer
 (4) Andy Roddick
70. The concept of 'carbon credit' was evolved from
 (1) Earth Summit, Rio de Janeiro
 (2) Montreal Protocol
 (3) Kyoto Protocol
 (4) Shanghai Protocol
71. Who among the following won the Pantaloons' Femina Miss India World 2009 title ?
 (1) Pooja Chopra
 (2) Ekta Choudhary
 (3) Shriya Kishore
 (4) Nupur Sinha
72. Which of the following has maximum energy ?
 (1) Blue light (2) Yellow light
 (3) Red light (4) Green light
73. In which of the following Vedic hymns there is reference of the origin of four Varnas ?
 (1) Nasadiya (2) Purush
 (3) Aaryani (4) Ushaah
74. Shahjahan annexed ___ to the Mughal Empire.
 (1) Ahmadnagar
 (2) Golconda
 (3) Bijapur (4) Khandesh
75. Who among the following first deciphered the Brahmi script ?
 (1) William Jones
 (2) James Prinsep
 (3) John Marshal
 (4) Macaulay

ENGLISH

Directions (76-80) : In each of the following questions, find out which part of the sentence has an error. If there is no mistake, the answer is 'No error'.

76. My father is (1)/ in bad mood (2)/ today. (3)/ No error (4).
77. The accelerating pace of life in our metropolitan city (1)/ has had the tremendous effect (2)/ on the culture and life style of the people. (3)/ No error (4).

78. The school is (1)/ with in hundred yards (2)/ from my house. (3)/ No error (4).

79. Both the civilians (1)/ and army men (2)/ joined the first world war. (3)/ No error (4).

80. The famous Dr. Chandra (1)/ is only dentist (2)/ in our village. (3)/ No error (4).

Directions (81-85) : In each each of the following questions, out of the given alternatives, choose the one which best expresses the meaning of the given word.

81. URGESOME

- (1) Hateful (2) Painful
 (3) Tragic (4) Frightful

82. SECURE

- (1) Secret (2) Comfortable

- (3) Safe

- (4) Independent

83. TYRANNY

- (1) Misrule (2) Power
 (3) Madness (4) Cruelly

84. OBLIGATORY

- (1) Useful (2) Required
 (3) Stubborn (4) Agreeable

85. CONNOISSEUR

- (1) Ignorant (2) Interpreter
 (3) Delinquent (4) Lover of art

Directions (86-90) : In each of the following questions, choose the word opposite in meaning to the given word.

86. START

- (1) Close (2) Shut
 (3) End (4) Finish

87. UNIVERSAL

- (1) Narrow (2) Regional
 (3) Miniature (4) Subidiary

88. ALIVE

- (1) Passive (2) Dead
 (3) Asleep (4) Drowsy

89. ANCESTORS

- (1) Supporters (2) Disciples
 (3) Followers
 (4) Descendants

90. SYNTHETIC

- (1) Cosmetic (2) Plastic
 (3) Affable (4) Natural

Directions (91-95) : In each of the following questions, a sentence is given with a blank to be filled in with an appropriate word. Four alternatives are suggested for each question. Choose the correct alternative.

91. If a universal language really existed, people like tourists and businessmen would find it easier to _____ with foreigners.

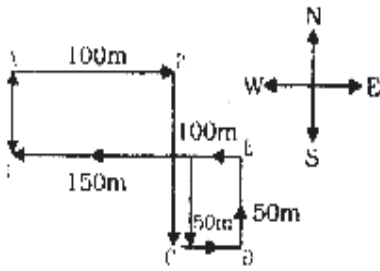
- (1) transact
(2) communicate
(3) deal (4) exchange
92. On account of his humiliating defeat in the recent elections, he appeared unusually ____ when I called on him the other day.
(1) oppressed
(2) repressed
(3) depressed
(4) suppressed.
93. You need ____ shoes for walking in the hills.
(1) good (2) comfortable
(3) satisfactory (4) sturdy
94. Amongst the two brothers, Sameer being worthier often ____ the younger Deepak.
(1) dominates (2) eclipses
(3) subdues (4) overshadows
95. It was difficult to see through the ____ of the head lights of the cars.
(1) shine (2) glare
(3) dazzle (4) brilliance

Directions (96-100) : In each of the following questions, out of the four alternatives, choose the one which can be substituted for the given words/sentence.

96. To cause troops etc. to spread out in readiness for battle
(1) Align (2) Collocate
(3) Deploy (4) Disperse
97. One who forcibly seizes control of a bus or an aircraft
(1) Pirate (2) Swindler
(3) Hijacker (4) Pilferer
98. The act of killing one's wife
(1) Genocide (2) Uxoricide
(3) Canicide (4) Avicide
99. Music sung or played at night below a person's window
(1) Serenade (2) Sonnet
(3) Lyric (4) Primo
100. A government by the nobles
(1) Democracy
(2) Bureaucracy
(3) Autocracy
(4) Aristocracy

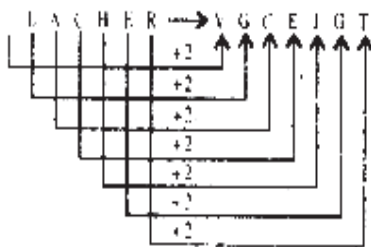
EXPLANATIONS

1. (2)

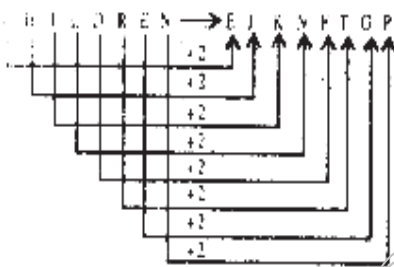


∴ Required distance [AF]
= 100 - 50 = 50 m

2. (1)



Similarly



3. (1)

1 A L A N D E R → C L A N A E D R
1 2 3 4 5 6 7 8 1 3 2 5 4 7 6 8

Similarly,

1 C I R C U L A R → C R I U C A L R
1 2 3 4 5 6 7 8 1 3 2 5 4 7 6 8

4. (3)

ab $\frac{a}{c}$ / $\frac{b}{a}$ $\frac{c}{a}$ / $\frac{a}{a}$ $\frac{b}{c}$ / ac /
 $\frac{a}{c}$ ac $\frac{a}{b}$

5. (14) Meaningful word ⇒

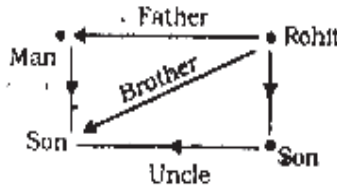
R E M A I N
(E) (B) (N) (F) (C) (D)

6. (1) 1 3 4 7 9 2 5 6 8
↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
A Q F J L D M P N

Therefore,

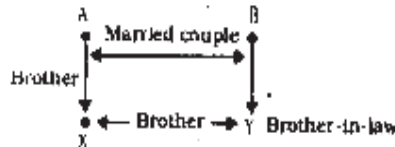
3 9 6 8 2 4
↓ ↓ ↓ ↓ ↓ ↓
Q L P N D F

7. (1)



∴ The man is father of Rohit.

8. (4)



9. (4) The head of the country is President. Similarly, the head of a state is Governor.

10. (2) Correct order of words

(C) TRAPEZE → (E) TRAVAIL →
(A) TRAVERSE → (D) TREADLE
→ (B) TREASURE

11. (3) Except grass, all others can be obtained from animals.

12. (1) Except Telescope, all others are audio devices. Telescope is used to see distant objects.

13. (3) $6 \times 2 + 1 = 13$

$$13 \times 2 - 1 = 25$$

$$25 \times 2 + 1 = 51$$

$$51 \times 2 - 1 = 101$$

$$101 \times 2 + 1 = \boxed{203}$$

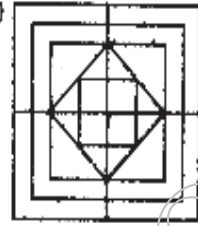
14. (3) From Problem Figure (A) to (B) the pairs of designs of the upper and lower rows interchange positions and the design at lower right corner is replaced with a new design. From Problem Figure (B) to (C) the pairs of designs at the left and right sides interchange positions and the design at upper right corner is replaced with a new design. These two steps are continued alternately in the subsequent figures.

15. (1) In each subsequent figure the arrow moves stepwise diagonally and rotates through 135° and 90° clockwise alternately. The circle also moves stepwise and rotates 90° anticlockwise alternately.

16. (3) In each subsequent figure the main design rotates through 90° clockwise and the attached smaller designs move in anticlockwise direction.

17. (4) This problem is based on the rule (1) = (4) and (2) = (5).

18. (2)



19. (1)



20. (1)



21. (3)



22. (2) From first figure to second figure the second and the third designs become the first and the second designs respectively and the first design becomes the third design. The fourth design is replaced with a new design. From second figure to third figure the first design becomes the fourth design and other designs move towards left in that order. These two steps are continued in the subsequent figures. If we interchange the Problem Figure (2) with (4) the sequence becomes correct.

23. (4) In each subsequent figure all the designs move one step in anticlockwise direction. If we interchange Problem Figure (3) with (5) the sequence becomes correct.

24. (2) $4 \times 3 - 4 = 8$

$$8 \times 3 + 4 = \boxed{28}$$

$$28 \times 3 - 4 = 80$$

$$80 \times 3 + 4 = 244$$

$$244 \times 3 - 4 = 728$$

25. (4)



26. (2) Suppose the fractions are $\frac{x}{5}$

and $\frac{y}{7}$ respectively.

$$\therefore \frac{x}{5} + \frac{y}{7} = \frac{41}{35}$$

$$\Rightarrow 7x + 5y = 41 \quad \dots(i)$$

and, $\frac{y}{5} + \frac{x}{7} = \frac{43}{35}$

$$\Rightarrow 7y + 5x = 43 \quad \dots(ii)$$

$$\therefore 49x + 35y = 287$$

$$\text{and, } 25x + 35y = 215$$

$$\begin{array}{r} 49x + 35y = 287 \\ - (25x + 35y = 215) \\ \hline 24x = 72 \\ x = 3 \\ \text{and } y = 4 \end{array}$$

\therefore Required fractions are $\frac{3}{5}$ and $\frac{4}{7}$

27. (4) Obviously the required numbers are 12, 24 and 36.

28. (2) Relative speed of trains = 55 + 80

= 135 miles per hour

Time taken to cover 65 km

$$= \frac{65}{135} \times 60 \text{ minutes}$$

$$= \frac{780}{27} \text{ minutes}$$

$$\text{Time} = \frac{780}{27} - 2 = \frac{726}{27} \text{ minute}$$

$$\text{Distance covered in } \frac{726}{27}$$

$$= \frac{726}{27} \times \frac{135}{60} = 60.5 \text{ miles}$$

\therefore The distance between the two trains 2 minutes before collision

$$= 65 - 60.5 = 4.5 \text{ miles}$$

29. (3) Suppose the number is x .

$$\therefore 2x - \frac{x}{2} = 99$$

$$\therefore x = 99 \times \frac{2}{3} = 66$$

30. (2) Suppose the two numbers are x and y respectively.

$$\therefore y - \frac{x}{4} = \frac{5y}{6} \Rightarrow y - \frac{5y}{6} = \frac{x}{4}$$

$$\Rightarrow \frac{y}{6} = \frac{x}{4} \therefore \frac{x}{y} = \frac{4}{6} = 2:3$$

31. (4) Suppose the SP of one dozen of mango is Re. 1

\therefore SP of 39 dozen of mangoes

= Rs. 39

and SP of 13 dozen of mangoes

= Rs. 13 profit

\therefore CP of 39 dozen of mangoes

$$= 39 - 13 = \text{Rs. } 26$$

$$\therefore \text{Profit \%} = \frac{13}{26} \times 100\% = 50\%$$

32. (3) Place values of digits in the number 0.078543

$$\frac{7}{100}, \frac{8}{1000}, \frac{5}{10000}, \frac{4}{100000}$$

$$\text{and } \frac{3}{1000000}$$

$$33. (3) \frac{16 \times 16 \times 12 \times 12}{16 \times 12}$$

$$= 16 \times 12 = 192$$

$$34. (1) 0.8 \times 0.8 + 0.8 \times \frac{1}{8}$$

$$= 0.64 + 0.10 = 0.74$$

$$35. (2) \frac{8}{15} + \frac{9}{7} \times \frac{3}{7}$$

$$= \frac{8}{15} + \frac{7}{9} \times \frac{3}{7} = \frac{8}{15} + \frac{1}{3} = \frac{8}{15} + \frac{5}{15} = \frac{13}{15}$$

$$36. (4) 105 = 3 \times 5 \times 7$$

$$70 = 2 \times 5 \times 7$$

$$210 = 2 \times 3 \times 5 \times 7$$

$$\therefore \text{HCF} = 5 \times 7 = 35$$

$$37. (3) \text{LCM of } \frac{3}{8}, \frac{9}{16} \text{ and } \frac{27}{40}$$

$$= \text{LCM} \frac{\text{LCM of } 3, 9 \text{ and } 27}{\text{HCF of } 8, 9 \text{ and } 40} = \frac{27}{8}$$

$$38. (4) 8 = 2^3 \quad 9 = 3^2$$

$$12 = 2^2 \times 3 \quad 15 = 3 \times 5$$

$$18 = 2 \times 3^2$$

$$\text{LCM of } 8, 9, 12, 15 \text{ and } 18$$

$$= 2^3 \times 3^2 \times 5 = 360$$

$$\therefore \text{Required number}$$

$$= 360 \times 2 \times 5 = 3600$$

39. (2) Suppose the number is x

According to question

$$\frac{60}{100} \text{ of } x + 120 = x$$

$$\Rightarrow 120 = x - \frac{3x}{5} \Rightarrow 120 = \frac{2x}{5}$$

$$\Rightarrow x = \frac{120 \times 5}{2} = 300$$

40. (2) $100 \times 40 + 100(40 - 35)$

$$= 100 \times x$$

If these work is completed in x days.

$$\Rightarrow 4000 + 500 = 100x$$

$$\therefore x = 45$$

\therefore If more men had not been employed then the work had been completed after 5 days.

41. (3) Suppose Rs. x was lent at 12%

$$\therefore \frac{(4000 - x) \times 10 \times 3}{100} + \frac{x \times 12 \times 3}{100}$$

$$= 5350 - 4000$$

$$\Rightarrow 120000 - 30x + 36x$$

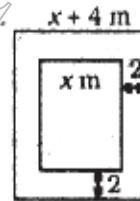
$$= 1350 \times 100$$

$$= 135000$$

$$\Rightarrow 6x = 15000$$

$$\therefore x = \frac{15000}{6} = \text{Rs. } 2500$$

$$42. (3) \therefore (x + 4)^2 - (x)^2 = 72$$



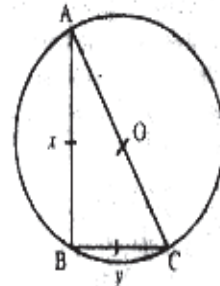
$$\Rightarrow 8x + 16 = 72$$

$$\therefore x = \frac{72 - 16}{8}$$

$$= 7 \text{ metres}$$

$$\therefore \text{Area of field} = (7)^2 = 49 \text{ sq m}$$

$$43. (3) \therefore x + y + 20 = 48$$



$$\Rightarrow x + y = 28 \quad \dots(i)$$

$$\Rightarrow y = 28 - x$$

$$\text{and } x^2 + y^2 = (20)^2 \quad \dots(ii)$$

$$\Rightarrow x^2 + (28 - x)^2 = (20)^2$$

$$\Rightarrow x^2 + 784 - 56x + x^2 = 400$$

$$\Rightarrow 2x^2 - 56x + 384 = 0$$

$$\Rightarrow x^2 - 28x + 192 = 0$$

$$\Rightarrow (x - 16)(x - 12) = 0$$

$$\therefore x = 16 \text{ or } 12$$

$$\text{and } y = 12 \text{ or } 16$$

$$44. (4) \therefore m^n = 25 \Rightarrow (5)^2 = 25$$

$$\therefore m = 5 \text{ and } n = 2$$

$$\therefore n^m = 2^5 = 32$$

$$45. (2) \frac{36}{10000} = 0.0036$$

$$46. (1) 0.006 \times 0.0009 = 0.0000054$$

$$47. (2) A = P \left(1 + \frac{r}{100}\right)^T$$

$$= 10,000 \left(1 + \frac{10}{100}\right)^3$$

$$= 10,000 \times \frac{11}{10} \times \frac{11}{10} \times \frac{11}{10}$$

$$= \text{Rs. } 13,310$$

48. (1) Suppose the CP of article is Rs. x .

According to question

$$x - 1600 = 2000 - x$$

$$\Rightarrow 2x = 3600$$

$$\therefore x = \frac{3600}{2} = \text{Rs. } 1800$$

$$49. (4) P = \frac{525720}{13} = 40440$$

50. (3) Speed of boat upstream

$$= \frac{40}{4} = 10 \text{ kmph}$$

Speed of boat downstream

$$= \frac{40}{5} = 8 \text{ kmph}$$

\therefore Speed of boat in still water

$$= \frac{10 + 8}{2} = 9 \text{ kmph}$$

51. (3) Internet 52. (2) Modem

53. (4) Centripetal Force

54. (1) APJ Abdul Kalam

55. (3) Solar cell

56. (4) All of the above

57. (3) Barack Obama

58. (2) Jeevan Bodh

59. (1) Bina Nivesh 2005

60. (4) Jawahar Lal Nehru

61. (3) Savitri 62. (1) Vallabhi

63. (4) Magnetic Ink Character Recognition

64. (3) 6 months

65. (1) Klass Shwab

66. (1) PN Bhagwati

67. (4) VV Girl

68. (2) Corporation tax

69. (3) Roger Federer

70. (2) Montreal Protocol

71. (1) Pooja Chopra

72. (1) Blue light

73. (2) Purush

74. (1) Ahmadnagar

75. (2) James Princep

76. (2) in bad mood

77. (2) has had the tremendous effect

78. (2) with in hundred yards

79. (2) and army men

80. (2) is only dentist

81. (4) Frightful

82. (3) Safe 83. (4) Cruelly

84. (2) Required

85. (2) Interpreter

86. (4) Finish

87. (2) Regional

88. (2) Dead

89. (4) Descendants

90. (1) Cosmetic

91. (2) communicate

92. (3) depressed

93. (2) comfortable

94. (4) overshadows

95. (3) dazzle 96. (3) Deploy

97. (3) Hijacker 98. (2) Uxoricide

99. (1) Serenade

100. (4) Aristocracy

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