

SRI KRISHNAVENI BANKING COACHING CENTRE

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Marks : 200

SBI/SBI Associates Banks Clerks

Time : 135 Min

MODEL PAPER - 14

REASONING ABILITY

- Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?
1. 49 2. 45
3. 79 4. 37
5. 65
 - Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?
1. Horse 2. Tiger
3. Giraffe 4. Lion
5. Zebra
 - In a certain code OVER is written as '8974' and PRIORITY is written as '14384352'. How is REPORT written in that code?
1. 471945 2. 471845
3. 472845 4. 491845
5. None of these
 - If black is called brown, brown is called pink, pink is called white, white is called green, green is called red, red is called yellow and yellow is called blue, which of the following will be the colour of milk?
1. white 2. green 3. yellow 4. blue
5. red
 - The positions of the second and the eighth digits of the number 39128564 are interchanged. Similarly the positions of the fourth and the fifth digits are interchanged. The positions of the first and the sixth digits are interchanged and the positions of the third and the seventh digits are interchanged. Which of the following will be the third digit to the left of 3 after the rearrangement?
1. 4 2. 6 3. 9 4. 8
5. 2
 - How many such letters are there in the word BACKLASH each of which is as far away from the beginning of the word as from the beginning of the English alphabet?
1. None 2. One
3. Two 4. Three
5. More than three
 - If it is possible to make only one meaningful word with the first, the sixth, the seventh and the ninth letters of the word PROMENADE, which of the following will be the first letter of that word? If no such word can be formed, give 'X' as the answer. If only two such words can be formed, give 'Y' as the answer. And if more than two such words can be formed, give 'Z' as the answer.
1. P 2. N
3. X 4. Y
 - Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?
1. Chlorine 2. Sodium
3. Iodine 4. Potassium
5. Iron
 - In a certain code 'MONETARY' is written as 'FOPNZSBU'. How is 'JOURNALS' written in that code?
1. KPYSTMBO 2. SVPKOBMT
3. SVPKREZM 4. SVPKTMB0
5. None of these
 - If rain means water, water means cloud, cloud means road, road means jungle, jungle means sky, sky means air, air means tree and tree means flower, where do the birds fly in?
1. sky 2. flower
3. air 4. tree
5. None of these
 - How many such pairs of letters are there in the word CREDENTIAL each of which has as many letters between them in the word and in the same sequence as in the English alphabet?
1. None 2. One
3. Two 4. Three
5. More than three
 - Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?
1. Cabbage 2. Brinjal
3. Potato 4. Gourd
5. Turmeric
 - How many meaningful words can be made by changing only the consonants in the word MEAN so that each of the consonants is replaced by the previous letter in the English alphabet by using each letter only once in each word?
1. One 2. Two
3. Three 4. Four
5. More than four
- Directions (Q. 14-15):** Read the four statements given below and answer the questions following it.
- 'P+Q' means 'P is mother of Q'
 - 'P-Q' means 'P is brother of Q'
 - 'P+Q' means 'P is sister of Q'
 - 'P × Q' means 'P is father of Q'
- Which of the following means T is niece of D?
a. $D + M + T$ b. $D + M + T + R$
c. $D - M \times T + R$
1. Only b 2. Only c
3. Both a and b 4. Both b and c
5. None of these

15. Which of the following statements is superfluous to answer the above question?

1. Only (i)
2. Either (ii) or (iii)
3. Both (iii) and (iv)
4. Either (ii) or (iv)
5. None of these

Directions (Q. 16-20): Study the following arrangement carefully and answer the questions given below:

ER15TD7FH2VAM9USK4GW3Z8JN6IPY

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

1. MU2
2. 384
3. NIZ
4. SG9
5. 7H5

17. Which of the following is fourth to the left of the seven tenth from the left end in the above arrangement?

1. 3
2. W
3. K
4. M
5. None of these

18. How many such vowels are there in the above arrangement, each of which is immediately preceded by a number and immediately followed by a consonant?

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

19. If the order of positions of the last twelve elements in the above arrangement is reversed, which of the following will be the fourth towards right of the sixteenth from the left end?

1. G
2. 6
3. P
4. W
5. None of these

20. What should come in place of the question mark (?) in the following series based on the above arrangement? R5D F2A 9S4 ?

1. G38
2. WZJ
3. WZN
4. 38N
5. None of these

Directions (Q. 21-25): In each of the questions below are given three 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 with 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.

21. **Statements:**

- a. All glasses are windows.
- b. Some windows are roads.
- c. All roads are buildings.

Conclusions:

- I. Some buildings are windows.
- II. Some buildings are glasses.
- III. Some roads are glasses.
1. Only I follows
2. Only I and II follow
3. Only III follows
4. Only II follows
5. All follow

22. **Statements:**

- a. Some boys are trees.
- b. Some trees are jungles.
- c. Some jungles are fruits.

Conclusions:

- I. Some fruits are trees.

II. Some trees are boys.

III. Some jungles are boys.

1. None follows
2. Only I follows
3. Only III follows
4. Only II follows.
5. All follow

23. **Statements:**

- a. Some pens are books.
- b. All schools are books
- c. Some colleges are schools

Conclusions:

- I. Some colleges are pens.
- II. Some pens are schools.
- III. Some colleges are books.
1. All follow
2. Only I and II follow
3. Only II and III follow
4. Only I and III follow
5. None of these

24. **Statements:**

- a. Some buses are houses.
- b. All houses are taxis.
- c. All rickshaws are taxis.

Conclusions:

- I. Some rickshaws are houses.
- II. Some taxis are houses
- III. Some taxis are buses.
1. None follows
2. Only I follows
3. Only II follows
4. Only II and III follow
5. All follow

25. **Statements:**

- a. All lions are tigers.
- b. No goat is a tiger.
- c. All horses are goats.

Conclusions:

- I. Some horses are lions.
- II. Some horses are tigers.
- III. No horse is a lion.
1. Only either I or III follows
2. Only III follows
3. Only I follows
4. Only II follows
5. None of these

Directions (Q. 26-30): Read the following information carefully and answer the questions given below:

In each question below a number is given. The digits in each of these numbers are to be coded as per the codes given below and the conditions following the codes:

Digit: 9 5 3 1 4 7 8 2 6

Code: L M A K I R D T H

Conditions:

- i. If both the first and the last digits of the number are odd numbers, both should be coded as 'V'.
- ii. If both the first and the last digits of the number are even numbers, both should be coded as 'Z'.

26. 938542

1. VADMIZ
2. LADMIT
3. ZADMIV
4. VADMIV
5. None of these

27. 145695

1. VIMHLM
2. VIMHLZ
3. ZIMHLM
4. KIMHLM
5. None of these

28. 561872

1. VMHKDV
2. ZMHKDV
3. VMHKBR
4. MHKDRT
5. None of these

29. 435798

1. ZAMRLZ 2. VAMRLV
3. ZAMRLV 4. IAMRLD
5. None of these

30. 623457

1. HTAMIR 2. HATIMR
3. HTAIMR 4. HATMRI
5. None of these

Directions (Q. 31-35): 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: win 20 for 17 cake 38 60 height

Step I: win 17 20 for cake 38 60 height

Step II: win 17 height 20 for cake 38 60

Step III: win 17 height 20 for 38 cake 60

and Step III is the last step.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

31. **Input:** how tire 27 39 42 safe guard 65

Which of the following steps will be the last but one?

1. IV 2. V 3. VI 4. VII
5. None of these

32. **Step IV of an Input is:**

ultra 12 style 29 82 64 road hand

How many more steps are required to complete the rearrangement?

1. One 2. Two
3. Three 4. Four
5. No further step is required

33. **Step II of an input is:**

yellow 20 care for on 31 43 82

Which of the following steps will be the last?

1. V 2. VI
3. VII 4. Cannot be determined
5. None of these

34. **Step III of an input is:**

victory 17 town 79 63 35 bring home

Which of the following is definitely the input?

1. 17 victory 79 town 63 35 bring home
2. town victory 17 79 63 35 bring home
3. 79 victory 17 town 63 35 bring home
4. Cannot be determined
5. None of these

35. **Input:** ask me 25 over 39 67 night 43

Which of the following will be the Step III?

1. over 25 night 39 me 43 ask 67
2. over 25 night 39 me ask 67 43
3. over 25 night 39 ask me 67 43
4. over 25 night ask me 39 67 43
5. None of these

Direction (Q. 36-40): In the following questions, the symbols @, \$, %, & and # are used with the following meanings as illustrated below:

'P@Q' means 'P is neither greater than nor equal to Q'

'P\$Q' means 'P is not smaller than Q'

'P#Q' means 'P is neither smaller than nor greater than Q'

'P&Q' means 'P is not greater than Q'

'P%Q' means 'P is neither smaller than nor equal to Q'

Now in each of the following questions, assuming the given statements to be true, find which of the two conclusions I and II given below them is/are definitely true.

Conclusion

1. if only Conclusion I is true.
2. if only Conclusion II is true.
3. if either Conclusion I or II is true.
4. if neither Conclusion I nor II is true.
5. if both Conclusions I and II are true.

36. **Statements:**

J # R, R % K, K @ D

Conclusions:

I. K @ J II. D @ J

37. **Statements:**

M @ T, K % T, K @ N

Conclusions:

I. N % M II. K % M

38. **Statements:**

V \$ D, D @ R, R % F

Conclusions:

I. R % V II. V @ F

39. **Statements:**

B @ E, E # S, S \$ Z

Conclusions:

I. Z @ E II. E # Z

40. **Statements:**

H % M, N @ M, N \$ T

Conclusions:

I. H # T II. H % T

QUANTITATIVE APTITUDE

Directions (41-46): What will come in place of the question mark (?) in the following questions?

41. $3 \times ? + 30 = 0$

1. -15 2. 15 3. 10 4. -30
5. None of these

42. $40.83 \times 1.02 \times 1.2 = ?$

1. 49.97592 2. 41.64660
3. 58.7952 4. 42.479532
5. None of these

43. $3\frac{1}{3} + 6\frac{3}{7} \times 1\frac{1}{2} \times \frac{22}{7} = ?$

1. $\frac{23}{9}$ 2. $\frac{22}{7}$ 3. $\frac{5}{22}$ 4. $\frac{21}{11}$
5. None of these

44. $\sqrt{1.5625} = ?$

1. 125 2. 12.5
3. 1.05 4. 1.25
5. None of these

45. $3978 + 112 \times 2 = ? + 2$

1. 8180 2. 2101 3. 4090 4. 8404
5. None of these

46. $(10^{3.7} \times 10^{1.3})^2 = 10^?$

1. 6 2. 7 3. 5 4. 3
5. None of these

Directions (47-52): In each of the following number series, a wrong number is given. Find out the wrong number.

47. 2 3 6 18 109 1944 209952

1. 3 2. 6 3. 18 4. 109
5. 1944

48. 3 6 11 20 39 70

1. 3 2. 39 3. 11 4. 20
5. 6

49. 2 13 27 113 561 3369 23581

1. 13 2. 27 3. 113 4. 561
5. 3369

50. 50 51 47 56 42 65 29

1. 51 2. 47 3. 56 4. 42
5. 65

51. 3 9 23 99 479 2881 20159
1. 9 2. 23 3. 99 4. 479
5. 2881
52. 2 4 5 8 13 21
1. 4 2. 5 3. 8 4. 13
5. 21
53. What will be the compound interest on a sum of Rs.25,000 after three years at the rate of 12 pcpa?
1. Rs.10123.20 2. Rs.9000.30
3. Rs.10483.20 4. Rs.9720
5. None of these
54. In how many ways can a group of 5 men and 2 women be made out of a total of 7 men and 3 women?
1. 63 2. 45 3. 126 4. 90
5. None of these
55. In how many different ways can the letters of the word CORPORATION be arranged in such a way that the vowels always come together?
1. 840 2. 25,200 3. 8400 4. 14,400
5. None of these

Directions (56-61): Study the following table to answer the given questions:

PRODUCTION (IN CRORE UNITS) OF SIX COMPANIES OVER THE YEARS							
Company	YEARS						Total
	1997	1998	1999	2000	2001	2002	
TP	103	150	105	107	110	132	707
ZIR	75	80	83	86	90	91	505
AVC	300	300	300	360	370	340	1970
CTU	275	280	281	280	285	287	1688
PEN	25	30	35	40	42	45	217
SIO	85	87	89	91	92	96	540
Total	863	927	893	964	989	991	5627

56. The production of Company AVC in 2000 is approximately what per cent of its average production over the given years?
1. 300 2. 110
3. 135 4. 18.25
4. 95
57. For SIO, which year was the per cent increase or decrease in production from the previous year the highest?
1. 2001 2. 1998
3. 2002 4. 2000
5. None of these
58. Which company has less average production in the last three years compared to that of first three years?
1. No company 2. CTU
3. ZIR 4. SIO
5. None of these
59. The total production of the six companies in the first two given years is what per cent of that of last two given years? (round off up to two decimal places)
1. 87.08 2. 104.55 3. 90.40 4. 10.62
5. None of these
60. For ZIR, which of the following is the difference between production in 2002 and that in 2001?
1. 10,00,00,000 2. 1,00,00,000
3. 10,00,000 4. 40,00,000
5. None of these
61. For how many companies did the production increase every year from that of the previous year?
1. One 2. Two 3. Three 4. Four
5. None of these
- Directions (Q. 62-67):** Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the questions. Read both the statements and - Give answer
1. If the data in **statement I alone** are sufficient to answer the question, while the data in **statement II alone** are not sufficient to answer the question.
2. If the data in **statement II alone** are sufficient to answer the question, while the data in **statement I alone** are not sufficient to answer the question.
3. If the data either in **statement I alone** or in **statement II alone** are sufficient to answer the question.
4. If the data even in **both statements I and II together** are not sufficient to answer the question.
5. If the data in **both statements I and II together** are necessary to answer the question.
62. By selling a product at 20% profit, how much profit was earned?
I. The difference between cost and selling price is Rs.40.
II. The selling price is 120 per cent of the cost price.
63. A train crosses another train running in the opposite direction in x seconds. What is the speed of the train?
I. Both the trains have the same length and are running at the same speed
II. One train crosses a pole in 5 seconds
64. What is a two-digit number?
I. The difference between the two digits is 9
II. The sum of the digits is equal to the difference between the two digits
65. A spherical ball of radius x cm is melted and made into a right circular cylinder. What is the height of the cylinder?
I. The volume of the cylinder is equal to the volume of the ball
II. The area of the base of the cylinder is given
66. The area of a square is equal to that of a circle. What is the circumference of the circle?
I. The diagonal of the square is x inches
II. The side of the square is y inches
67. A, B and C are positive integers. Is their product an even number?
I. A is an even number
II. The product of A and B is an even number and that of A and C is also an even number
68. By how much is three-fifths of 350 greater than four-sevenths of 210?
1. 120 2. 210 3. 95 4. 110
5. None of these
69. Three men, four women and six children can complete a work in 7 days. A woman does double the work a man does and a child does half the work a man does. How many women can complete this work in 7 days?
1. 8 2. 7
3. 12 4. Cannot be determined
5. None of these

Directions (Q. 70-74): For the two given equations I and II give answer.

1. if p is greater than q .
2. if p is smaller than q .
3. if p is equal to q .
4. if p is either equal to or greater than q .
5. if p is either equal to or smaller than q .

70. I. $6p^2 + 5p + 1 = 0$

II. $20q^2 + 9q = -1$

71. I. $3p^2 + 2p - 1 = 0$

II. $2q^2 + 7q + 6 = 0$

72. I. $3p^2 + 15p = -18$

II. $q^2 + 7q + 12 = 0$

73. I. $p = \frac{\sqrt{4}}{\sqrt{9}}$

II. $9q^2 - 12q + 4 = 0$

74. I. $p^2 + 13p + 42 = 0$

II. $q^2 = 36$

Directions (Q. 75-80): What will come in place of the question mark (?) in the following questions?

75. $136 \times 68 + 17 = ?$

1. 504 2. 524 3. 454 4. 554

5. None of these

76. $7835 - ? + 123 \times 11 = 6295$

1. 2883 2. 2793 3. 2893 4. 1663

5. None of these

77. $17^{3.5} \times 17^7 = 17^8$

1. 4.5 2. 2.29 3. 2.75 4. 4.25

5. None of these

78. $12.1212 + 17.0005 - 9.1102 = ?$

1. 20.0105 2. 20.1015 3. 20.0015 4. 20.0115

5. None of these

79. $25 \times \sqrt{7} = 425$

1. 189 2. 16 3. 256 4. 17

5. None of these

80. $1260 \div 15 \div 7 = ?$

1. 122 2. 58 3. 588 4. 12

5. None of these

ENGLISH LANGUAGE

Directions (81 - 90): Read each sentence to find out whether there is any error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error the answer is (5). (Ignore errors of punctuation, if any)

81. The economical condition (1) of our country is bad (2) / and unlikely to improve (3) / in the near future. (4) / No error (5).
82. As mentioned on the form (1) / and also in the brochure (2) / please write you (3) / name only with ink (4) / No error (5).
83. He wept bitterly (1) / on hearing the news (2) / of his failure (3) / in the examination (4) / No error (5).
84. Come and sit down (1) / for a while; (2) / your are digging (3) / since lunch time. (4) / No error (5).
85. Hari has faith in God (1) / and will do never wrong (2) / even in the most (3) / trying and unusual circumstances. (4) / No error (5).
86. The vacancy was (1) / filled by Mr. Gupta (2) / whom the manager said (3) / ought to be promoted. (4) / No error (5).
87. As this is an (1) / important matter (2) / each of us has (3) / something to say on this. (4) / No error (5).
88. Silver, as well as, cotton (1) / have fallen considerably (2) / in prices (3) / in recent days (4) / No error (5).
89. You must warn him (1) / saying that you (2) / would

beat him if (3) / he is talking against you again. (4) / No error (5).

90. I and Ramesh will (1) / proceed on journey tomorrow (2) / as it is an auspicious day (3) / according to my uncle. (4) / No error (5)

Directions (91-100): Pick out the most effective word from the given words to fill in the blank to make the sentence meaningfully complete.

91. Man's landing on the moon was a giant ___ for the human beings.

1. discovery 2. knowledge
3. invention 4. leap
5. flight

92. He ___ his speech with beautiful sweet sounding words.

1. adjusted 2. contributed
3. enriched 4. advocated
5. fabricated

93. His book ___ praise from one and all

1. accorded 2. provoked
3. advocated 4. accepted
5. elicited

94. Sincerity is the essential condition of a ___ friendship.

1. durable 2. highest
3. motivated 4. flexible
5. dynamic

95. Gopal cleverly ___ all the questions posed to him.

1. refused 2. denied
3. accepted 4. enlisted
5. parried

96. He ___ a keen desire to become a wealthy man.

1. measured 2. advanced
3. resolved 4. nurtured
5. promised

97. According to some people, third world war is ___

1. notorious 2. antisocial
3. inevitable 4. explorable
5. dubious

98. He did not ___ his identity to us.

1. acknowledge 2. reveal
3. fabricate 4. exhibit
5. project

99. No human being in this world is ___

1. infallible 2. irrevocable
3. irrefutable 4. inestimable
5. irresistible

100. Sita was pleased with the paid to her

1. felicitation 2. remarks
3. acknowledgement 4. compliments
5. comments

Directions(101-110): In the following passage there are blanks, each of which has been numbered. These numbers are again printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

Quality of life at workplace is an important issue for the employees as well as for the employers. It is a matter of (101) for employees because they spend some thirty to forty years of their lives on the job and the quality of workplace has a (102) on the quality of their lives. The issue of quality of work life (QWL) is also of (103) to the employers because it is one of the (104) means to achieve organizational goals. Improved QWL (105) employee's sat-

isfaction and motivation on the job. The most important (106) of an organisation is its employees. Improving QWL (107) leads of healthier, more satisfied and productive employees, and more efficient, (108) and profitable organizations. From the action studies and empirical researches various view points have (109) out regarding what are to be the (110) of QWL.

- | | |
|----------------------|-------------------|
| 101. 1. dispute | 2. rejoice |
| 3. issue | 4. proposition |
| 5. concern | |
| 102. 1. deliberation | 2. resolve |
| 3. bearing | 4. decision |
| 5. reflection | |
| 103. 1. claim | 2. interest |
| 3. exposure | 4. incentive |
| 5. reward | |
| 104. 1. latent | 2. projected |
| 3. distant | 4. vital |
| 5. manifest | |
| 105. 1. implies | 2. mitigates |
| 3. counters | 4. attacks |
| 5. provokes | |
| 106. 1. viewpoint | 2. resource |
| 3. attribute | 4. infrastructure |
| 5. deminsion | |
| 107. 1. periodically | 2. incidentally |
| 3. legally | 4. eventually |
| 5. surprisingly | |
| 108. 1. adaptive | 2. decorative |
| 3. descriptive | 4. proverbial |
| 5. elaborate | |
| 109. 1. put | 2. made |
| 3. evolved | 4. cut |
| 5. brought | |
| 110. 1. embodiments | 2. drawbacks |
| 3. associates | 4. projections |
| 5. dimensions | |

Directions (111-115): In each question below four words which are numbered 1, 2, 3 and 4 have been printed of which one may be wrongly spelt. The number of that word is the answer. If all the four words are correctly spelt, mark (5) i.e. "All correct" as the answer.

- | | |
|---------------------|----------------|
| 111. 1. Frequently | 2. Orientation |
| 3. Aspiration | 4. Consequence |
| 5. All correct | |
| 112. 1. Effective | 2. Information |
| 3. Considerable | 4. Praied |
| 5. All correct | |
| 113. 1. Performance | 2. Flexible |
| 3. Evaluation | 4. Behaviour |
| 5. All correct | |
| 114. 1. Particular | 2. Independent |
| 3. Receive | 4. Speculate |
| 5. All correct | |
| 115. 1. Education | 2. Essential |
| 3. Acquier | 4. Register |
| 5. All correct | |

Directions (116-120): Read the following passage carefully and answer the questions given below it.

Mahatma Gandhi has repeatedly called himself a truthpecker and has learned, in the course of his search, that truth is condition of being, not a quality outside of oneself or a moral acquisition, that it is of the very essence of the divine in man. Though the saw deceit and falsehood all around him, and knew that it was accepted as the standard of life by people occupying positions of authority and

influence, he was never afterwards tempted to yield to it even when to have done so would have brought advantage and no condemnation.

For healing he always had a great love and some aptitude and when at the age of seventeen his family in conclave suggested his going to England to study law, he begged to be allowed to study law, he begged to be allowed to study law, he begged to be allowed to study medicine instead. This however, was not permitted and law was chosen for him. But, the love of healing remained, and though the could not study in the orthodox schools of medicine, he gratified his desire by studying various forms of naturecure treatment and by experimenting with these on his person and on his friends and relatives. Some of these experiments produced remarkable results possibly not only due to the treatment but also to his devoted and instinctive nursing.

116. Choose the word that is **most opposite** in meaning of the word 'begged' as used in the passage.

- | | |
|--------------|--------------|
| 1. demanded | 2. appealed |
| 3. suggested | 4. requested |
| 5. protested | |

117. On whom did Gandhiji practice nature-cure?

1. On sick patients in hospitals
2. On people occupying positions of authority and influence
3. Those who were in great need of the treatment
4. Those who were not cured by other medicines
5. None of these

118. Gandhiji studied law mainly because

1. he wanted to be an eminent lawyer
2. he wanted to go to England
3. his family thrust upon him the study of law
4. he knew he can make a good career in legal profession
5. he wanted to serve people by solving their legal problems

119. Choose the word which is **most opposite** in meaning of the word 'orthodox' as used in the passage

- | | |
|--------------|---------------------|
| 1. backward | 2. non-conventional |
| 3. unpopular | 4. modern |
| 5. customary | |

120. What was Gandhiji's idea of truth?

1. it should be assimilated as a personal quality
2. it should be observed with a healing touch
3. it should not be followed with an idea of sacrifice
4. it should be searched in the world around you
5. None of these

GENERAL AWARENESS

- 121)** Which country test-fired a short range surface-to- surfaceballistic missile Hatf III(Ghaznavi), capable of carrying nuclear warheads to a range of 290 kilometers in April 2014?
 1) Afghanistan 2) Iran 3) Iraq
 4) Pakistan 5) Israel
- 122)** Suresh k.Reddy was appointed as India's first Ambassador to the separate Indian Mission to ASEAN and East Asia summit in April 2014. Currently he is the Ambassador of India to ?
 1) China 2) Iraq 3) Saudi Arabia
 4) UAE 5) Mongolia
- 123)** 'Hard Choices' is an upcoming book written by
 1) Barack Obama 2) Janet Yellen
 3) Hillary Clinton 4) Ben Bernanke
 5) Bill Clinton

- 124) Who was appointed as the new Finance secretary in April 2014?
1) R.P. Watal 2) Rajiv Takru 3) Ravi Mathur
4) Arvind Mayaram 5) G.S. Sandhu
- 125) Which team won the I-League football title for the first time in Margao on April 21, 2014?
1) Bengaluru FC 2) Dempo Sports Club
3) Churchill Brothers 4) Salgaocar Sport Club
5) Mohun Bagan
- 126) Rosatom is the state Atomic Energy Corporation of which of the following countries?
1) USA 2) UK 3) Germany 4) France 5) Russia
- 127) Who is the author of the book "Freedom from Fear"?
1) Benazir Bhutto 2) Taslima Nasreen
3) Aung san sun kyi 4) Nelson Mandela
5) Mother Teresa
- 128) Dinar is the currency of which of the following countries?
1) Sudan 2) Myanmar 3) Afghanistan
4) Indonesia 5) None of these
- 129) No Frills Accounts help which of the following section of customers?
1) Students 2) Retired people
3) Weaker sections of society
4) High value customers 5) None of these
- 130) Which of the following agencies is not associated with the functioning of financial sector in India?
1) NABARD 2) ECGC 3) EXIM Bank
4) IRDA 5) UGC
- 131) What is the full form of TDS?
1) Total Discount Subtracted
2) Tax During service 3) Tax Due on Services
4) Tax Deducted at source 5) None of these
- 132) Which of the following terms is not used in the field of banking/finance?
1) Liquidity / Position 2) Repo Rate
3) SWAP rates 4) Cash withdrawal
5) Cold War
- 133) Which of the following trophies/cups is associated with the games of Golf?
1) Topolino Trophy 2) America Cup
3) Jaya Laxmi Cup 4) Corbillion Cup
5) None of these
- 134) Which one of the following terms and their full forms is not correctly matched?
1) IPO-Initial Public Offer
2) PAN-Permanent Account Number
3) GDCF-Gross Domestic Capital Formation
4) IAEA-International Atomic Energy Agency
5) OECD- Organization for Exporters Coordination and Development
- 135) Which of the following is / are not decided by the Finance Minister While presenting Union Budget every year?
1) Rate of Income Tax
2) Expenditure on Defense services
3) Reverse Repo Rate
4) Revenue expected from various sources
5) Both 1 and 2
- 136) Which of the following statements is correct?
1) Commercial banks are non institutional sources of credit
2) Balance of payment is related to diplomatic relations
3) The reverse mortgage scheme was launched to help youngsters
4) The term 'power of Attorney' refers to power entrusted to a person of authority
5) Repo rate is Covered under the RBI monetary and credit policy
- 137) Which of the following books is written by Arun Shourie?
1) A Secular Agenda 2) A bend in the River
3) A Sitable Boy 4) A House for Mr. Biswas
5) A China passage
- 138) International day for the Abolition of Slavery is observed every year on?
1) December 5 2) December 2
3) November 2 4) October 5
5) November 5
- 139) Who is the author of the novel "The Trial"?
1) Franz Kafka 2) Jane Austen 3) George Eliot
4) Jeffrey Archer 5) Ayan Rand
- 140) Bharat Ratna Was awarded to Mother Teresa in the year?
1) 1979 2) 1980 3) 1982 4) 1976 5) 1971
- 141) The authority to alter the boundaries of states in India rests with the?
1) President 2) Prime Minister 3) Parliament
4) Concerned state governments
5) None of these
- 142) The 'Doing Business Report' is prepared every year by which of the following organizations?
1) World Bank 2) ADB 3) IMF
4) WTO 5) WEF
- 143) Which of the following is an example of plantation agriculture?
1) Paddy 2) Wheat 3) Coffee
4) Jowar 5) Vegetables
- 144) Farakka irrigation project is in?
1) Uttar Pradesh 2) Bihar 3) West Bengal
4) Odisha 5) Jharkhand
- 145) Which commission is appointed by the President under Article 280 of the Indian Constitution?
1) Finance Commission
2) Women's Commission
3) Union public service Commission
4) Election Commission
5) Planning Commission
- 146) Which is the oldest airline in the world Still operating?
1) KLM airlines 2) Air Canada
3) Qantas Airways 4) Lufthansa
5) Garuda
- 147) OTEC stands for?

- 1) Ocean Thermal Energy Conservation
 2) Oil and Thermal Energy Conservation
 3) Oil and Thermal Energy Conversion
 4) Ocean Thermal Energy 5) none of these
- 148) Zeid al-Hussein will take over as the United Nations High Commissioner for Human Rights on September 1, 2014? Replacing Navi Pillay of South Africa Zeid al-Hussein is the price of
 1) Yemen 2) Turkey 3) Jordan
 4) Saudi Arabia 5) UAE
- 149) The Tax Administration Reform Commission (TARC) submitted its report to the Union - Ministry of Finance on June 15, 2014? TARC is headed by
 1) Raghuram Rajan 2) Parthasarathy Shome
 3) C.Rangarajan 4) R.Damodaran
 5) U.K.Sinha
- 150) Defending champions crashed out of the FIFA world cup football on June 18, 2014 After their second defeat in five days.name the team ?
 1) Netherlands 2) Brazil 3) Spain 4) Mexico
 5) Uruguay
- 151) B.L.Joshi resigned as the Governor of which of the following states on June 17, 2014?
 1) Karnataka 2) Chhattisgarh
 3) Madhya Pradesh 4) Uttar Pradesh
 5) Jharkhand
- 152) World day to Combat Desertification (WDCD) is observed on ?
 1) June 15 2) June 20 3) June 17
 4) June 5 5) None of the these
- 153) Which of the following cities has become the first 'Kerosene-free city' in India?
 1) Mumbai 2) Delhi 3) Kolkata
 4) Chennai 5) Bangalore
- 154) Shaktikanta Das has been appointed as the new ?
 1) Finance Secretary
 2) Financial services secretary
 3) Revenue Secretary
 4) Economic Affairs secretary
 5) Commerce secretary
- 155) Which of the following countries retained the men's hockey world cup title by beating the Netherlands 6-1 in the final at the Kyocera stadium in the Hague on June 15, 2014?
 1) Australia 2) Argentina 3) England
 4) India 5) South Korea
- 156) Which team won the 2014 edition of women's Hockey world cup held in the Hague, Netherlands on June 14, 2014?
 1) Netherlands 2) Australia 3) Argentina
 4) USA 5) Belgium
- 157) Who is the current Governor of the bank of England, the central bank of the United Kingdom?
 1) Mark Carney 2) Sir John Houbton
 3) Sir Edward George 4) sir Mervyn King
 5) None of these

- 158) Which country will host the FIFA U-20 World cup from May 30 to June 20, 2015?
 1) Peru 2) Tunisia 3) Wales 4) France 5) New Zealand
- 159) Which of the following African countries has won the right to host the 2017 FIFA U-20 world cup?
 1) South Korea 2) Bahrain 3) Kuwait
 4) Qatar 5) UAE
- 160) Who among the following is not a Union Minister of state with independent charge ?
 1) Piyush Goyal 2) Jitendra Singh
 3) Nirmala Sitharaman 4) General V.K.Singh
 5) Kalraj Mishra

MARKETING/COMPUTERS

161. The operation of combining two cells into a single cell in Excel is referred to as—
 1. Join cells 2. Merge cells
 3. Merge Table 4. Join table
 5. None of these
162. Which of the following can be used to store a large number of files in a small amount of storage space?
 1. File adjustment 2. File copying
 3. File reading 4. File compatibility
 5. File compression
163. In a computer most processing takes place in
 1. Memory 2. RAM
 3. Motherboard 4. CPU
 5. None of these.
164. Data is organised in a worksheet as —
 1. Charts and diagrams 2. rows and columns
 3. tables and boxes 4. Graphs
 5. None of these.
165. Which of the following is an example of a binary number?
 1. 6AHI 2. 100101 3. 005 4. ABCD
 5. 23456
166. Spell check will find errors in which of the following?
 1. Today is a rainy day 2. Today is a rainy a day
 3. is a rainy 4. Rainy today a day
 5. None of these
167. Which of the following is not a storage medium?
 1. hard disk 2. flash drive
 3. DVD 4. CD
 5. Keyboard
168. In Excel when the content and attributes of a cell or range of cells have to be erased using the menu the user must—
 1. Select the cells, choose Edit and select clear, then all
 2. Select the cells, click delete on Keyboard
 3. Select the cells, choose Tools and select clear, then format
 4. Select the cells, choose Tools and select formula Audit, then delete
 5. None of these.
169. The computer abbreviation KB usually means
 1. Key Block 2. Kernel Boot
 3. Kilo byte 4. Kit Bit 5. None of these
170. If an Excel worksheet is to be linked for use in a PowerPoint presentation, the following

1. Edit, Paste Special 2. Edit, Past
3. Edit, Copy 4. Kit Bit
5. None of these
171. RAM stands for ———
1. Random Access Memory
2. Ready Application Module
3. Read Access Memory
4. Remote Access Machine
5. None of these
172. Which of the following is hardware and not software? ———
1. Excel 2. Printer Driver
3. Operating System 4. Power Point
5. Control Unit
173. In word, which menu would the user select to print a document?
1. Tools 2. File 3. View 4. Windows
5. None of these
174. Which of the following is not true about the computer files?
1. They are collections of data saved to a storage medium
2. Every file has a filename
3. A file extension is established by the user to indicate the date it was created
4. Usually files contain data
5. None of these
175. The common name for a modulator-demodulator is ———
1. Modem 2. Joiner
3. Net worker 4. Connector
5. demon
176. What do you see when you click the right mouse button?
1. The same effect as the left click
2. A special menu
3. No effect
4. A Mouse cannot be right clicked
5. Computer goes to sleep mode
177. In order to choose the font for a sentence in a WORD document ———
1. Select Font in the Format menu
2. select Font in the Edit menu
3. select Font in the Tools menu
4. select Font in the Insert menu
5. None of these
178. The AL perform ——— operations.
1. Logarithm-based 2. ASCII
3. algorithm-based 4. arithmetic
5. None of these
179. Excel is a program that is used to prepare a —
1. Database 2. Text Documents
3. Spreadsheet 4. Slide Presentation
5. None of these
180. ——— consists of volatile chips that temporarily store data or instructions.
1. CPU 2. ROM
3. RMA 4. RAM
5. None of these
181. A brand which is specifically used in a particular geographical region is called —
1. National Brand 2. International Brand
5. None of these
182. When a single brand is used in whole the country is called —
1. International Brand 2. National Brand
3. Provincial Brand 4. Traditional Brand
5. None of these
183. When a single brand is used in whole the world/ around the globe is called :
1. National Brand 2. International Brand
3. Provincial Brand 4. Traditional Brand
5. None of these
184. Examples of competitive Brand is/are :
1. Lux soap 2. Liril soap
3. Dove soap 4. All of the above
5. None of these
185. Examples of Manufacturer's Brand is/are :
1. Dalda Ghee 2. Bajaj
3. Tata 4. (2) and (3)
5. None of these
186. Technical Test, Middlemen Test, and Consumer's Test are the part of —
1. Package Test 2. Market Test
3. Product Test 4. All of the above
5. None of these
187. Information should be given on product's label
1. Date of Production
2. Quantity of Product
3. Name and Address of the Product
4. (1), (2) and (3)
5. None of these
188. Under the stage product gains priority and recognition among the consumers. Consumers like the brand of product. This stage is called
1. Introduction 2. Growth
3. Maturity 4. Saturation
5. None of these
189. At this stage, a product captures significant place in the market. The customers like and prefer the product. This stage is called
1. Growth 2. Maturity
3. Saturation 4. Introduction
5. None of these
190. Under this stage the total sale of the product is at the maximum possible level. This stage is called :
1. Growth 2. Maturity
3. Introduction 4. Saturation
5. None of these
191. Expired cost, the monetary value of the resources that have already been used in —
1. Producing cost 2. Producing revenue
3. Producing unit 4. Goods
5. None of these
192. Future costs are based on —
1. Forecasts 2. Production
3. Per unit cost 4. Advertising
5. None of these
193. When costs are accumulated for an organisational unit or department, it is called —
1. A cost centre 2. A cost benefit
3. Cost of production 4. Unit
5. None of these
194. ——— costs are those cost items which can be traced logically and conveniently, in their entirety, to a cost object.

- | | |
|-----------------|-------------------|
| 1. Direct costs | 2. Indirect costs |
| 3. Fixed costs | 4. Make costs |
| 5. All of these | |

195. Costs are those cost items which cannot be traced or identified directly with a cost object.

- | | |
|-------------------|----------------|
| 1. Direct costs | 2. Fixed costs |
| 3. Indirect costs | 4. Full costs |
| 5. All of these | |

196. The sum of direct materials and direct labour costs is called —

- | | |
|------------------|-------------------|
| 1. Prime cost | 2. Factor cost |
| 3. Overhead cost | 4. Value of stock |
| 5. Full cost | |

197. The sum of direct materials cost, direct labour cost and factory overhead is called —

- | | |
|-----------------------|-----------------|
| 1. Full cost | 2. Factory cost |
| 3. Total factory cost | 4. All of these |
| 5. None of these | |

198. When products have been manufactured and are on saleable condition, the selling function—

- | | |
|------------------|--------------|
| 1. Starts | 2. Drop |
| 3. Reduced | 4. Increased |
| 5. None of these | |

199. costs are those costs which are incurred to perform the marketing functions.

- | | |
|-----------------------|----------------|
| 1. Distribution costs | 2. Full costs |
| 3. Sale of goods | 4. Total costs |
| 5. Transfer costs | |

200. Distribution costs are also called —


1. Marketing costs
2. Selling costs
3. Full costs
4. (1) and (2) are both
5. Full costs

KRISHNAVALANI

SRI KRISHNA VENI BANKING COCHING CENTRE KEY SHEET -14

1)3	2) 1	3) 2	4) 2	5) 2	6) 3	7)5	8)1	9) 4	10) 5
11) 5	12)5	13)3	14) 4	15)5	16) 4	17)4	18) 3	19)5	20) 2
21)1	22)4	23)5	24)4	25)2	26)2	27)5	28)4	29)1	30)3
31)5	32)3	33)2	34)4	35)4	36)1	37)5	38)4	39)3	40)2
41)5	42)1	43)5	44)4	45)4	46)5	47)4	48)2	49)1	50)4
51)3	52)1	53)1	54)1	55)5	56)2	57)3	58)5	59)3	60)2
61)3	62)1	63)4	64)1	65)2	66)3	67)3	68)5	69)2	70)2
71)1	72)4	73)3	74)5	75)5	76)3	77)1	78)4	79)5	80)4
81)1	82)3	83)5	84)3	85)2	86)3	87)4	88)2	89)4	90)1
91)4	92)2	93)5	94)1	95)5	96)4	97)3	98)2	99)1	100)4
101)5	102)3	103)2	104)4	105)1	106)2	107)4	108)1	109)5	110)1
111)5	112)4	113)5	114)5	115)3	116)5	117)5	118)3	119)2	120)1
121)4	122)2	123)3	124)4	125)1	126)5	127)3	128)5	129)3	130)5
131)4	132)5	133)1	134)5	135)3	136)5	137)1	138)2	139)1	140)2
141)3	142)1	143)3	144)3	145)1	146)1	147)4	148)3	149)2	150)3
151)4	152)3	153)2	154)3	155)1	156)1	157)1	158)5	159)1	160)5
161) 2	162)5	163)4	164)2	165)2	166)5	167)5	168)1	169)3	170)1
171)1	172)5	173)2	174)3	175)1	176)2	177)1	178)4	179)3	180)4
181)3	182)2	183)2	184)4	185)4	186)1	187)4	188)2	189)2	190)4
191)2	192)1	193)1	194)1	195)3	196)1	197)4	198)1	199)1	200)4

SOLUTIONS

1. (3) All others can be written as $4x + 1$ where x is a natural number.
2. (1) Others are wild animals.
3. (2) Letter: E I O P R T V Y
Code: 7 3 8 1 4 5 9 2
'REPORT' is '471845'
4. (2) the colour of 'milk' is 'white'. But, in the given code language 'white' is called 'green'.
5. (2) After rearrangement the number will become as follows: 54682319
Thus, the third digit to the left of '3' is '6'.
6. (3) A B C D E F G H
B A C K L A S H
Only C and H are such letters.
7. (5) The specified letters are: P, N, A and E.
1. NAPE 2. NEAP 3. PANE
8. (1) Others are found in solid state.
9. (4) **Word:** MONETARY JOURNALS
Step I: ENOMYRAT RUOJSLAN
Step II: FOPNZSBU SVPKTMBO
10. (5) Birds fly in the sky. But, in the given code language jungle means sky.
11. (5) C R E D E N T I A L

12. (5) Others are vegetables.
16. (4) $+2 \quad -5$
1. M \rightarrow U \rightarrow 2
 $+2 \quad -5$
2. 3 \rightarrow U \rightarrow 2
 $+2 \quad -5$
3. N \rightarrow I \rightarrow Z
 $+3 \quad -5$
4. S \rightarrow G \rightarrow 9
 $+2 \quad -5$
5. 7 \rightarrow H \rightarrow 5
17. (4) Fourth to the left of the seventeenth from the left end = $(17 - 4 =)$ 13th from the left, ie M.
18. (3) ER15TD7FH2VAM9USK4GW3Z8JN6IPY
19. (5) I
After rearrangement,
ER15TD7FH2VAM9USKYPI6NJ8Z3WG4
The fourth to the right of the sixteenth element from the left end = $(16 + 4 =)$ 20th element from the left end, ie I.

20. (2)

R \rightarrow F \rightarrow 9 \rightarrow W
 $+6 \quad +6 \quad +6$
5 \rightarrow 2 \rightarrow S \rightarrow Z
 $+6 \quad +6 \quad +6$
D \rightarrow A \rightarrow 4 \rightarrow J

14

26. (2) 9 3 8 5 4 2

$\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$
L A D M I T

27. (5) 1 4 5 6 9 5

$\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$
V I M H L V
'145695' is 'VIMHLV'.

28. (4) 5 6 1 8 7 2

$\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$
M H K D R T

29. (1) 4 3 5 7 9 8

$\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$
Z A M R L Z

As both the first and the last digits (4 and 8) are even, both will be coded as Z.

'435798' is 'ZAMRLZ'.

30. (3) 6 2 3 4 5 7

$\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$
H T A I M R

31. (5) Step III

Input: how tire 27 39 42 safe guard 65

Step I: tire how 27 39 42 safe guard 65

Step II: tire 27 how 39 42 safe guard 65

Step III: tire 27 safe how 39 42 safe guard 65

Step IV: tire 27 safe 39 how 42 guard 65

32. (3)

Step IV: ultra 12 style 29 82 64 road hand

Step V: ultra 12 style 29 road 82 64 hand

Step VI: ultra 12 style 29 road 64 82 hand

Step VII: ultra 12 style 29 road 64 hand 82

33. (2)

Step II: yellow 20 care for no 31 43 82

Step III: yellow 20 on care for 31 43 82

Step IV: yellow 20 on 31 care for 43 82

Step VI is the last step.

35. (4) Input: ask me 25 over 39 37 night 43

Step I : over ask me 25 39 67 night 43

Step II: over 25 ask me 39 67 night 43

Step III: over 25 night ask me 39 67 43

36. (1) $J = R$ (i) $R > K$ (ii) $K < D$ (iii) combining (i) and (ii), we get

$$J = R > K \Rightarrow J > K \text{ or } K < J \text{ (Conclusion I)}$$

Conclusion I is true.

Now, from conclusion I and statement (iii), we can't get any specific relation between J and D.

Hence, conclusion II is not necessarily true.

41. (5) $3 \times ? + 30 = 0 \Rightarrow ? = \frac{-30}{3} = -10$
42. (1) $40.83 \times 1.02 \times 1.2$
 $= 41.6466 \times 1.2 = 49.97592$
43. (5) $3 \frac{1}{3} + 6 \frac{3}{7} \times 1 \frac{1}{2} \times \frac{22}{7}$
 $= \frac{10}{3} + \frac{45}{7} \times \frac{3}{2} \times \frac{22}{7}$
 $= \frac{10}{3} \times \frac{7}{45} \times \frac{3}{2} \times \frac{22}{7} = \frac{22}{9}$
44. (4) $\sqrt{1.5625} = 1.25$
45. (4) $3978 + 112 \times 2 = ? + 2$
 $\therefore ? = (3978 + 224) \times 2 = 8404$
46. (5) $(10^{3.7} \times 10^{1.3})^2 = 10^?$
 $\Rightarrow (10^{3.7+1.3})^2 = 10^? [\because a^b \times a^c = a^{b+c}]$
 $\therefore 10^? = (10^5)^2$
 $= 10^{5 \times 2} [\because (a^b)^c = a^{bc}] = 10^{10}$
 $? = 10$
47. (4) 2 3 6 18 109 1944 209952
 $\Rightarrow 2 \times 3 = 6; 3 \times 6 = 18; 6 \times 18 = 108;$
 $18 \times 108 = 1944; 108 \times 1944 = 209952$
48. (2) 3 6 11 20 39 70
 $3 \times 2 - 0 = 6;$
 $6 \times 2 - 1 = 11; 11 \times 2 - 2 = 20;$
 $20 \times 2 - 3 = 37; 37 \times 2 - 4 = 70$
49. (1) 2 13 27 113 561 3369 23581
 $\Rightarrow 2 \times 2 + 7 = 11; 11 \times 3 - 6 = 27; 27 \times 4 + 5 =$
 $113; 113 \times 5 - 4 = 561; 561 \times 6 + 3 = 3369; 3369$
 $\times 7 - 2 = 23581$
50. (4) 50 51 47 56 42 65 29
 $\Rightarrow 50 + 1^2 = 51; 51 - 2^2 = 47; 47 + 3^2 = 56;$
 $56 - 4^2 = 40; 40 + 5^2 = 65; 65 - 6^2 = 29$
51. (3) 3 9 23 99 479 2881 20159

$$\Rightarrow 3 \times 2 + 3 = 9; 9 \times 3 - 4 = 23; 23 \times 4 + 5 = 97;$$

$$97 \times 5 - 6 = 479; 479 \times 6 + 7 = 2881;$$

$$2881 \times 7 - 8 = 20159$$

52. (1) $2 + 3 = 5; 3 + 5 = 8; 5 + 8 = 13; 8 + 13 = 21;$
 $13 + 21 = 34$

53. (1) $A = P \left(1 + \frac{r}{100}\right)^t$

$$P = 25000; r = 12\%; t = 3 \text{ years}$$

$$\therefore A = 25000 \left(1 + \frac{12}{100}\right)^3 = \text{Rs. } 35123.2$$

$$\therefore \text{Interest} = A - P$$

$$= \text{Rs. } (35123.2 - 25000) = \text{Rs. } 10123.2$$

(Or)

Here 12% increase in consecutive years =

$$\text{increase in the second year} = 12 + 12 + \frac{12 \times 12}{100}$$

$$= 25.44\% \text{ increase}$$

Again

12% increase in the third year

$$= \left(25.44 + 12 + \frac{25.44 \times 12}{100}\right)$$

$$= (37.44 + 3.0528)\% \text{ increase} = 40.4928\%$$

interest = 40.4928% of 25000

$$= 40.4928 \times 250 = \text{Rs. } 10123.2$$

54. (1) The group consists of 7 men and 3 women. We have to select 5 out of 7 men, ie

$${}^7C_2, \text{ and 2 out of 3 women, ie } {}^3C_2$$

$$\text{So, number of ways} = {}^7C_2 \times {}^3C_2$$

$$= \frac{7 \times 6}{2 \times 1} \times \frac{3 \times 2}{2 \times 1} = 63 \quad [\because {}^nC_r = {}^nC_{n-r}]$$

55. (5) There are eleven letters in the word CORPORATION. Among these letters, vowels are O, O, A, I and O. Among these vowels O occurs thrice. Similarly, there are six consonants C, R, P, R, T and N. Among these consonants R occurs twice. consider all the vowels as one letter. In this way.

$$7 \text{ letters can be arranged in } \frac{7!}{2!} \text{ ways and the}$$

$$5 \text{ vowels can be arranged in } \frac{5!}{3!} \text{ ways}$$

Hence, number of arrangements in which

$$\text{vowels are always together} = \frac{7!}{2!} \times \frac{5!}{3!} = 50400.$$

56. (2) Production of company AVC in 2000
 $= 360 \text{ crore units}$

Average production of AVC over the given years

$$= \frac{300+300+300+360+370+340}{6} = \frac{1970}{6}$$

$$\text{percent} = \frac{360 \times 6}{1970} \times 100$$

$$= 109.64\% = 110\%$$

57. (3) percent increase or decrease in production from the previous year for SIO are

$$\text{In 1998} = \frac{2}{85} \times 100 = 2.35\%$$

$$\text{In 1999} = \frac{2 \times 100}{87} = 2.29\%$$

$$\text{In 2000} = \frac{2 \times 100}{89} = 2.24\%$$

$$\text{In 2001} = \frac{1 \times 100}{91} = 1.09\%$$

$$\text{In 2002} = \frac{4 \times 100}{92} = 4.34\%$$

The difference is maximum for 2001 to 2002, and production during all these years is almost same. Hence, in the year 2002 SIO registered maximum increase in production over the previous year.

58. (5) Sum of the productions of the companies in first three years and the last three years is as follows:

Company	First three years	Last three years
TP	358	349
ZIR	238	267
AVC	900	1070
CTU	836	852
PEN	90	127
SIO	261	279

59. (3) Total production of the six companies in first two given years = $863 + 927 = 1790$

Again, total production of the six companies in last two given years = $989 + 991 = 1980$

$$\text{percent} = \frac{1790 \times 100}{1980} = 90.40\%$$

60. (2) difference = $(91-90)$ crore units = 1×10000000
= 1,00,00,000 units

61. (3) those companies are:

ZIR, PEN and SIO

62. (1) To answer the question we need one of the following.

a. Cost price of the product

b. Selling price of the product

c. Difference of the selling price and the cost price

From I: We get that the profit is Rs. 40

[∵ profit = selling price - cost price]

From II: It is restatement. Because when profit earned is 20% then obviously selling price will be 120% of the cost price.

Thus, only statement alone is sufficient.

63. (4)

$$= \frac{\text{Sum of the length of the trains}}{\text{Time taken to cross each other when the trains are running in opposite direction}}$$

From I: $S_1 = S_2$ and $L_1 = L_2$

Where S_1 and S_2 are speeds of the trains and L_1 and L_2 are the lengths of the trains.

These informations do not lead us to answer.

Hence not sufficient.

Again, **From II:**

$$\frac{L_1}{S_1} = 5$$

Hence, II alone is also not sufficient.

From I and II: We still lack information regarding the length and the speed of the train. Hence, statement I and II even together are not sufficient.

64. (1) **From I:** Digit at ten's place - digit at unit's place = 9. This can be possible only in the case of 90. Hence, statement I alone is sufficient.

From II: The sum of two digits is equal to the difference between the two digits. This implies that unit's place digit is 0. And digits at ten's place may be any of the remaining nine digits. Hence, statement II alone is not sufficient.

65. (2) **From II:** Radius of the sphere in question part will give us the volume of the sphere as well as that of the right circular cylinder.

height of right circular cylinder

$$= \frac{\text{Volume of the cylinder}}{\text{area of the base of the cylinder}}$$

66. (3) **From I:**

Diagonal of the square → Side of the square → Area of the square → Area of the circle → radius of the circle → Circumference of the circle.

statement 1 alone is sufficient. Similarly, we will get the answer also with the help of statement II alone.

68. (5) $\frac{3}{5}$ of 350 - $\frac{4}{7}$ of 210

difference = 210 - 120 = 90

69. (2) $3m + 4w + 6c$ do in 7 days

$\Rightarrow \frac{3}{2}w + 4w + \frac{6}{4}w$ do in 7 days

$\Rightarrow 7w$ do in 7 days

70. (2) I. $6p^2 + 5p + 1 = 0$

$\Rightarrow 6p^2 + 3p + 2p + 1 = 0$

$\Rightarrow 3p(2p + 1) + 1(2p + 1) = 0$

$\Rightarrow (3p + 1)(2p + 1) = 0$

Hence, $p = \frac{-1}{3}, \frac{-1}{2}$

II. $20q^2 + 9q + 1 = 0$

$\Rightarrow 20q^2 + 5q + 4q + 1 = 0$

$\Rightarrow 5q(4q + 1) + 1(4q + 1) = 0$

$\Rightarrow (5q + 1)(4q + 1) = 0$

Hence, $q = \frac{-1}{5}, \frac{-1}{4}$ Thus $p < q$

71. (1) I. $3p^2 + 2p - 1 = 0$

$\Rightarrow 3p^2 + 3p - p - 1 = 0$

$\Rightarrow 3p(p + 1) - 1(p + 1) = 0$

$\Rightarrow (3p - 1)(p + 1) = 0$ Therefore, $p = \frac{1}{3}, -1$

II. $2q^2 + 7q + 6 = 0$

$\Rightarrow 2q^2 + 4q + 3q + 6 = 0$

$\Rightarrow 2q(q + 2) + 3(q + 2) = 0$

$\Rightarrow (2q + 3)(q + 2) = 0$

Therefore, $q = \frac{-3}{2}, -2$ Thus $p > q$

72. (4) I. $3p^2 + 15p + 18 = 0$

$\Rightarrow 3p^2 + 9p + 6p + 18 = 0$

$\Rightarrow 3p(p + 3) + 6(p + 3) = 0$

$\Rightarrow (3p + 6)(p + 3) = 0$

$\Rightarrow p = \frac{-6}{3}, -3 = -2, -3$

II. $q^2 + 7q + 12 = 0$

$\Rightarrow q^2 + 4q + 3q + 12 = 0$

$\Rightarrow q(q + 4) + 3(q + 4) = 0$

$\Rightarrow (q + 3)(q + 4) = 0$ or, $q = -3, -4$

Therefore, $p \geq q$

73. (3) I. $p = \frac{\sqrt{4}}{\sqrt{9}} = \frac{2}{3}$

II. $9q^2 - 12q + 4 = 0$

$\Rightarrow 9q^2 - 6q - 6q + 4 = 0$

$\Rightarrow 3q(3q - 2) - 2(3q - 2) = 0$

$\Rightarrow (3q - 2)(3q - 2) = 0$

$\Rightarrow q = \frac{2}{3}$

Therefore, $p = q$

74. (5) I. $p^2 + 13p + 42 = 0$

$\Rightarrow p^2 + 7p + 6p + 42 = 0$

$\Rightarrow p(p + 7) + 6(p + 7) = 0$

$\Rightarrow (p + 6)(p + 7) = 0$

$\Rightarrow p = -6, -7$

II. $q^2 = 36$

$q = \sqrt{36}$

$\therefore q = +6, -6$

Therefore $p \leq q$

75. (5) $? = 136 \times \frac{68}{17} = 544$

76. (3) $? = 7835 + 1353 - 6295$
 $? = 9188 - 6295 = 2893$

77. (1) $? = 8 - 3.5 = 4.5$

78. (4) $? = 29.1217 - 9.1102 = 20.0115$

79. (5) $\sqrt{?} = \frac{425}{25} = 17$

$\therefore ? = (17)^2 = 289$

80. (4) $? = \frac{1260}{15 \times 7} = 12$