

FMS PAPER: (10-01-2010)

SERIES 16

SECTION 2 (50 Questions)

Information for questions 51 to 54 : There are two circular concentric rings, with 26 sectors on each ring marked A to Z. Sectors on outer and inner circles match in a perfect size fit. Whereas the outer ring contains the sectors marked clockwise, the inner ring has sectors marked anticlockwise, such that sectors marked A on both the circles are coinciding at present, B on the outer circle coincides with Z on the inner circle and so on.

51. Apart from alphabet A, how many more alphabets coincide at present?
 (1) 1 (2) 2
 (3) 3 (4) None of these
52. How many vowels on the sectors in the outer circle have vowels on the corresponding sectors on the inner circle ?
 (1) 1 (2) 2
 (3) 3 (4) None of these
53. If the inner circle is rotated anti-clockwise by one sector from the original position, how many alphabets will coincide on both the circles ?
 (1) 1 (2) 2
 (3) 3 (4) None of these
54. If the outer circle is rotated clockwise by two sectors from the original position, how many alphabets will coincide on both the circles ?
 (1) 1 (2) 2
 (3) 3 (4) None of these

Information for questions 55 to 57 : Six directors of a private limited company namely A, B, C, D, E and F are playing Golf. A and E are brothers. F is the sister of E. C is the only son of A's uncle. B and D are the daughters of the brother of C's father.

55. How is C related to F ?
 (1) Cousin (2) Brother
 (3) Son (4) Uncle
56. How many male executives are there in the group ?
 (1) Two (2) Three
 (3) Four (4) One
57. How many of these executives are real brothers ?
 (1) Two (2) Three
 (3) Cannot be said (4) None of these

Information for questions 58 to 60 : The letters of the English alphabet are numbered from 26 to 1 such that 26 stands for A, 25 stands for B, and so on. The assigned numbers are used to write the letters of the original alphabet.

58. What will be the sum total of all vowels in the sequence ?
 (1) 78 (2) 84
 (3) 76 (4) None of these

59. Which of the following sequences denotes a valid word ?
- (1) 6-12-17-23 (2) 5-11-18-22
 (3) 5-12-18-23 (4) 5-12-17-23
60. If each of the alphabets stands for the number which denotes it, what will be the next term in the following sequence ?
 Z, W, R, K, —
- (1) A 1 4 9 16 (2) B
 (3) C (4) D
61. Six students are sitting in a row in an examination hall. K is sitting between V and R. V is sitting next to M. M is sitting next to B. B is sitting on the extreme left and Q is sitting next to R. Who are sitting adjacent to V ?
- (1) M and R (2) M and K
 (3) K and R (4) M and Q
62. If the letters 'Q B Z H X H Q D U M B' are placed in the order opposite to the one in which these normally appear in the English alphabet, then which of these would be the fifth letter from right to left?
- (1) H (2) Z BB D HH M U Q
 (3) U (4) X Z X U Q
63. Arun started walking positioning his back towards the sun. After some time, he turned left, then turned right and then towards the left again. In which direction is he going now?
- (i) North (ii) West
 (iii) South (iv) East
- (1) (i) or (ii) (2) (i) or (iii)
 (3) (ii) or (iii) (4) (iii) or (iv)

Information for questions 64 to 67 : In a club, combinations of five out of the eight songs P, Q, R, S, T, U, V and W are to be played by a DJ on a daily basis. On any one day, except for the first day of a month, only three of the songs must be the ones that were played on the previous day. The song combinations must also satisfy the following conditions :

- (i) If song "P" is to be played on a day, song "V" cannot be played.
 (ii) If song "Q" is to be played on a day, "T" must be one of the songs to be played after "Q".
 (iii) If "R" is to be played on a day, "V" must be one of the songs to be played after "R".
 (iv) The last song to be played on any day must be either "S" or "U".
64. Which of the following could be the combination of songs to be played on the first day of a month ?
- (1) P, R, V, S, U (2) Q, S, R, V, U
 (3) T, U, R, V, S (4) U, Q, S, T, W

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65. If the songs "R" and "W" are to be played on the first day, which of the following could be the other songs to be played on that day ?
- (1) P, T, U (2) Q, S, V
 (3) T, S, V (4) Q, T, V
66. Which of the following is TRUE of any day's valid combination of songs?
- (1) "P" cannot be played at third place
 (2) "Q" cannot be played at third place
 (3) "T" cannot be played at third place
 (4) "U" cannot be played at fourth place
67. If song "R" is played at third place in a sequence, which of the following cannot be the second song to be played in that sequence?
- (1) Q (2) S
 (3) T (4) U

Information for questions 68 to 70 : In a business school, four students Dinakaran, Sumit, Tarun and Amul exhibit a very strange mix of hobbies and subject interests. One of them studies Commerce and plays Golf and Lawn Tennis. Dinakaran and Sumit study Psychology. Dinakaran plays Billiards. Both the Psychology students play Chess. Tarun is a student of Physics. The Physics student plays Chess and Badminton. All the friends play two games each and study one subject each. One of the students also does Weight Training.

68. Who does not play Chess ?
- (1) Dinakaran (2) Sumit
 (3) Tarun (4) Amul
69. Who studies Psychology and plays Billiards ?
- (1) Dinakaran (2) Sumit
 (3) Tarun (4) Amul
70. How many games are played and subjects studied by all the four students ?
- (1) 2, 1 (2) 3, 2
 (3) 6, 3 (4) 5, 4

Information for questions 71 to 73 : Six products – Ariel, Vivel, Rin, Nirma, Gillette Gel and Pepsodent – are to be placed in six display windows of a shop numbered 1-6 from left to right of a shopper standing outside the shop. As per the company requirements, Rin and Ariel should be displayed next to each other, but Ariel should be at least three windows away from Nirma. Pepsodent is preferred to be kept between Gillette Gel and Rin but away from Vivel at least by two windows. Vivel cannot be displayed next to Rin for the reasons of mixed-product identity. Also Vivel cannot be displayed in window 1.

71. Which of the following products is displayed left to Ariel ?
- (1) Vivel (2) Nirma
 (3) Rin (4) Pepsodent

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72. If the positions of Rin and Ariel are interchanged, which item will be displayed in window 5 ?
 (1) Ariel (2) Nirma
 (3) Rin (4) Vivel
73. Which of the following products except Rin will be displayed left of Ariel but right of Gillette Gel ?
 (1) Vivel (2) Rin
 (3) Pepsodent (4) None of these
- Information for questions 74 to 76 :** In the English alphabet, letters from A to M denote numeric values from -13 to -1 (such that A is -13, B is -12,) and letters from N to Z denote values from 1 to 13 (such that N means 1, O means 2,).
74. Which of the following words will have a negative numeric value as a product of the numeric codes ?
 (1) HIS (2) HELL
 (3) ~~ROD~~ (4) None of these
75. Which one of the following words will have an absolute numeric value equal to that of BELL as a product of the numeric codes ?
 (1) YELL (2) HELL
 (3) RODE (4) ~~None of these~~
76. Assuming that the salaries and perks are basically coded with the help of designations using the code given above, who will be drawing the highest salary amongst the following ?
 (1) ~~PEON~~ (2) CLERK
 (3) HEAD (4) None of these
77. Out of the given four groups of letters, three groups follow a certain code. Which one of these is the odd group that does not follow the code ?
 (1) DSFU (2) PGRI
 (3) INKR (4) BUDW
78. Sanjay says, "I have as many sisters as brothers." Sarita says, "Each of us sisters has only half as many sisters as brothers." Assuming that Sanjay and Sarita are brother and sister, how many brothers and sisters are there in the family ?
 (1) 6 brothers and 4 sisters (2) 4 brothers and 6 sisters
 (3) 3 brothers and 4 sisters (4) 4 brothers and 3 sisters
79. In a row at a bus stop, A is 9th from the right and B is 7th from the left. They both interchange their positions. If there are 20 people in the row, what will be the new position of B from the left ?
 (1) 11th (2) 12th
 (3) 13th (4) 10th

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Information for questions 80 to 85. The Financial Statements of Oracide Corporation for the period 2004-2008 are summed up given in the table below.

(Figures in US \$ Mn)

Particulars	2004	2005	2006	2007	2008
Revenue	10,156.00	11,799.00	14,380.00	17,996.00	22,430.00
COGS	1,770.00	2,033.00	2,516.00	3,349.00	3,984.00
Gross Profit	8,386.00	9,766.00	11,864.00	14,647.00	18,446.00
Net Income	2,681.00	2,886.00	3,381.00	4,274.00	5,521.00
Total Assets	12,763.00	20,687.00	29,029.00	34,572.00	47,268.00
Total Current Liabilities	4,272.00	8,063.00	6,930.00	9,387.00	10,029.00
Total Liabilities	4,768.00	9,850.00	14,017.00	17,653.00	24,243.00
Total Equity	7,995.00	10,837.00	15,012.00	16,919.00	23,025.00
Total Liabilities and Equity	12,763.00	20,687.00	29,029.00	34,572.00	47,268.00

Evaluate the pairs of statements in each question on the basis of data given in the table and mark :

- (1) if only Statement I is correct
- (2) if only Statement II is correct.
- (3) if both the statements are correct.
- (4) if none of the statements is correct.

80. Statement I : Percentage Revenue growth over the previous year has been the highest in the year 2007.

Ans: (1)

Statement II : Percentage Revenue growth over the previous year has been the lowest in the year 2008.

81. Statement I : Lowest growth rate over the previous year in Total Assets was recorded in the year 2006.

Ans: (4)

Statement II : Highest growth rate over the previous year in Total Equity was recorded in the year 2008.

82. Statement I : Gross Profit every year has recorded higher growth rate as compared to the previous year for the period under review.

Ans: (1)

Statement II : Total Assets every year has not recorded higher growth rate as compared to the previous year for the period under review.

83. Statement I : The COGS to Revenue ratio is the lowest in the year 2006.

Statement II : The COGS to Revenue ratio is the highest in the year 2007.

Ans: (2)

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84. Statement I : The Gross Profit to Revenue ratio is the lowest in the year 2007.
Ans: (3)

Statement II : The Gross Profit to Revenue ratio is the highest in the year 2005.

85. Statement I : Total Assets to Total Liabilities Ratio is the lowest in the year 2007.
Ans: (4)

Statement II : Total Assets to Total Liabilities Ratio is the highest in the year 2005.

Information for questions 86 to 88 : In a family picnic, Shikhar, Dolly, Snehal, Akash, Swarn and Amar were playing a game. Shikhar's father, mother and uncle were in the group. Group has only two females. Dolly, the mother of Shikhar got more points than Shikhar's father. Akash got more points in the game than Swarn but less than that of Amar. Niece of Swarn got the lowest points. Father of Shikhar got more points than Amar but could not win the game.

86. Who was the lady in the group besides Dolly?

- (1) Snehal (2) Akash
 (3) Swarn (4) None of these

87. Who stood second in the game?

- (1) Shikhar (2) Dolly
 (3) Snehal (4) None of these

88. Who won the game?

- (1) Shikhar (2) Dolly
 (3) Amar (4) Akash

Information for questions 89 to 92 : In a post-induction training placement of an Export Oriented Unit, five new recruits Aditya, Aryan, Harish, Puru and Sheetal are to be placed in departments of Corporate Planning, Information Technology, Finance, HR and Exports. Aditya is recommended by Corporate Planning and Exports Departments. Aryan gets recommendations from Information Technology and HR Departments. Harish is recommended by Corporate Planning and Exports Departments. Puru makes it to Information Technology, Finance, Personnel as well as Exports. Only Sheetal could not get recommended by more than one department and it is also known that every department recommended at least two recruits from this group.

As per the placement policy of the company, departments have certain educational preferences while recommending available candidates. The department of :

- Exports prefers MIBs as most suitable
- Information Technology stresses more on a qualification of MCA
- Finance prefers an MFC
- HR gives top preference to applicants having a PMIR
- Corporate Planning prefers an MBA

89. Which of the following is an MBA ?
 (1) Aditya alone (2) both Aditya and Aryan
 (3) both Aditya and Harish (4) None of these
90. For which department is Sheetal shortlisted ?
 (1) Information Technology (2) Finance
 (3) HR (4) Exports
91. The qualification which is most common among the new recruits :
 (1) MIB (2) MFC
 (3) MCA (4) MBA
92. The recruit who is an MCA as well as MFC ?
 (1) Aditya (2) both Aditya and Aryan
 (3) both Aditya and Harish (4) Puru

Information for questions 93 and 94 : $A + B$ means A is the mother-in-law of B; $A - B$ means A is the daughter-in-law of B; and $A*B$ means A is the sister-in-law of B.

93. $P*Q+R$ means :
 (1) P is the mother-in-law of Q
 (2) P is the mother-in-law of R and Q
 (3) R is the daughter-in-law
 (4) None of the above
94. Given $X - Y + Z$, which of the following is certainly true?
 (1) Y is the mother-in-law (2) X is the mother-in-law
 (3) Z is the mother-in-law (4) None of these

Information for questions 95 to 97 : Seven workmen named Amrita, Bhushan, Ronnie, Deepak, George, Prem and Gunjan are sitting in a circle in a garment fabrication factory. Amrita, Bhushan, Ronnie, Deepak, Prem and Gunjan are sitting at equal distances from each other. Ronnie is sitting two places to the left of Prem, who is sitting one place to the right of Deepak. Amrita forms an angle of 90 degrees from George and an angle of 120 degrees from Bhushan. Bhushan is just opposite Gunjan, who is sitting to the left of George.

95. Who is the only person sitting between Ronnie and Bhushan ?
 (1) Prem (2) Deepak
 (3) George (4) Amrita
96. George is not sitting at equal distance from :
 (1) Deepak and Amrita (2) Ronnie and Prem
 (3) Bhushan and Prem (4) None of these
97. Which of the following statements is *not* correct ?
 (1) Prem is between Bhushan and Amrita
 (2) Bhushan is two places away from Gunjan
 (3) George is sitting opposite Prem
 (4) None of the above

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Information for questions 98 and 99 : In each of these questions, jumbled alphabets of a meaningful word are given. You are to rearrange the alphabets and select from the given alternatives the word which is almost opposite in meaning to the re-arranged word.

98. R B A N O E H C E R :

(1) apprehension

(3) appreciation

(2) aversion

(4) ~~unlike~~

99. L O G T C N R Y U :

(1) inconsistency

(3) disagreement

(2) irregularity

(4) mismatch

100. Pointing to a photograph, Devika says, "This man's son's son's son is my grandson". What is Devika's husband's relation with the man in the photograph ?

(1) Son

(3) Father

(2) Nephew

(4) Grandson

