SECTIONWISE: QUANTITATIVE APTITUDE PRACTICE SET

NUMERICAL ABILITY

Directions (41-43): What will come in place of the question mark (?) in the following questions?

41. $\frac{12}{17}$ of 25% of 1020=120 + ?
- (1) 60
- (2) 40
- (3) 80
- (4) 120
- (5) None of these

42. $5^2 \times 26 \div \sqrt{169} - 3^2 = ? - 4^2$
- (1) 65
- (2) 57
- (3) 55
- (4) 67
- (5) None of these

43. $\sqrt{54 \times 5 + 150 + 21} = (?)^2$
- (1) 21
- (2) $\sqrt{21}$
- (3) 441^2
- (4) 441
- (5) −441

Directions (44-46): What approximate value will come in place of the question mark (?) in the following questions? (You are not expected to calculate the exact value.)

44. $465.84 + 764.86 - 211.99 = ?$
- (1) 1100
- (2) 1080
- (3) 1000
- (4) 1020
- (5) 1060

45. 149.9% of 149.9 + 149.9 = ?
- (1) 375
- (2) 400
- (3) 350
- (4) 425
- (5) 450

46. $\sqrt{2642} - \sqrt{1156} + \sqrt{459} = ?$
- (1) 50
- (2) 90
- (3) 40
- (4) 20
- (5) 30

Directions (47-50): What will come in the place of the question mark (?) in the following number series?

47. 11 15 31 67 131 (?)
- (1) 233
- (2) 221
- (3) 243
- (4) 231
- (5) None of these

48. 483 471 435 375 291 (?)
- (1) 183
- (2) 184
- (3) 185
- (4) 186
- (5) None of these

49. 4 11 25 53 109 (?)
- (1) 221
- (2) 234
- (3) 212
- (4) 222
- (5) None of these

50. 15 21 33 51 75 (?)
- (1) 113
- (2) 103
- (3) 105
- (4) 115
- (5) None of these

Directions (51-54): In the following questions two equations numbered I and II are given. You have to solve both the equations and Give answer:
- (1) if x > y
- (2) if x ≥ y
- (3) if x < y
- (4) if x ≤ y
- (5) if x = y or the relationship cannot be established.

51. I. $14x - 25 = 59 - 7x$ II. $\sqrt{y + 222} - \sqrt{36} = \sqrt{81}$

52. I. $144x^2 - 16 = 9$ II. $12y + \sqrt{4} = \sqrt{49}$

53. I. $x^2 - 9x + 20 = 0$ II. $y^2 - 13x + 42 = 0$

54. I. $\frac{\sqrt{x}}{5} + \frac{3\sqrt{x}}{10} = \frac{1}{\sqrt{x}}$ II. $\frac{10}{\sqrt{y}} - \frac{2}{\sqrt{y}} = 4\sqrt{y}$

Directions (55-58): 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 question. 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 1 alone are not sufficient to answer the question

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

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

(5) if the data in both the Statements I and II together are necessary to answer the question

55. In how many days wilt five women complete a work?
I. Two women, five boys and three men together complete the work in eight days.
II. Six women complete the same work in sixteen days.

56. What is Sonu's monthly income ?
I. Rita's monthly income is Rs. 5000 more than Sonu's monthly income.
II. Sonu's monthly income is Rs. 8000 more than Sohan's monthly income.

57. What will be Pravin's age after 4 years?
I. The ratio between Pravin's and Shekhar's present age is 2 : 3 respectively.
II. Shekhar is six years older than Pravin.

58. What is the area of a circle?
I. The radius of the circle is equal to length of a rectangle.
II. The breadth of the rectangle is equal to 22 cms.

59. A man sold a wristwatch for Rs. 2400 at a loss of twenty five per cent. At what rate should he have sold the wristwatch to earn a profit of twenty five per cent?
- (1) Rs. 3600
- (2) Rs. 4000
- (3) Rs. 3500
- (4) Rs. 3800
- (5) None of these

60. If a number is added to seven-ninth of thirty five per cent of 900, the value so obtained is 325. What is the number?
- (1) 60
- (2) 120
- (3) 90
- (4) 180
- (5) None of these

61. The ratio between the three angles of a quadrilateral is 1 : 4 : 5 respectively. The value of the fourth angle of the quadrilateral is 60°. What is

the difference between the value of the largest and the smallest angles of the quadrilateral?
(1) 120°   (2) 90°   (3) 110°
(4) 100°   (5) None of these

62. What least number should be subtracted from 1740, so that it will be completely divisible by 88?
(1) 156   (2) 68   (3) 58
(4) 146   (5) None of these

Directions (63-66): Study the following table carefully to answer the questions that follow.

Number of cancelled flights (in hundreds)

Years	Punjab	Haryana	Rajasthan	Assam	West Bengal
2004	1.4	3.2	0.3	1.1	1.5
2005	1.3	4.1	0.7	0.8	2.1
2006	0.5	1.7	0.2	1.3	3.5
2007	2.7	2.6	1.8	2.7	4.3
2008	1.4	1.5	2.2	1.3	5.5
2009	2.7	1.3	2.1	1.4	6.0

63. What was the respective ratio between the number of flights cancelled in Rajasthan in the year 2006 and number of lights cancelled in West Bengal in the year 2009?
(1) 1 : 6   (2) 15 : 2   (3) 1 : 30
(4) 30 : 7   (5) None of these

64. What was the average number of flights cancelled in all the states together in the year 2008?
(1) 278   (2) 232   (3) 238
(4) 272   (5) None of these

65. What is the difference between the number of flights cancelled in Assam in the year 2007 and the total number of flights cancelled in Rajasthan in the years 2005, 2007 and 2008 together?
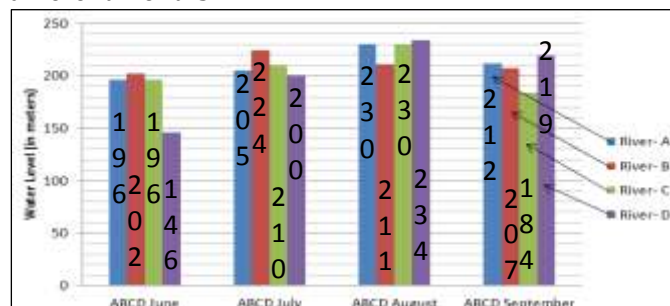(1) 200   (2) 230   (3) 210
(4) 240   (5) None of these

66. In which state the number of flights cancelled continuously increased during the years 2004 to 2009?
(1) Punjab   (2) Haryana   (3) Rajasthan
(4) Assam   (5) West Bengal

Directions (67-70): Study the following graph carefully and answer the questions that follow.

Water level of four major rivers (in metres) in four different months

67. What was the respective ratio between the level of River C in September and the water level of River B in June?
(1) 91 : 101   (2) 94 : 101   (3) 51 : 103
(4) 31 : 101   (5) None of these

68. If the danger level of all the four rivers is above 215 m, which river has not crossed the danger level in August but has crossed the danger level in July?
(1) River A   (2) River B   (3) River C
(4) River D   (5) None

69. What is the average water level of River–A in all the four months together?
(1) 224.50 m   (2) 212.25 m   (3) 210.75 m
(4) 222.25 m   (5) None of these

70. In which river and in which month respectively the water level is highest?
(1) River C in August   (2) River D in September
(3) River B in July   (4) River D in August
(5) None of the above

Directions (71-75): Study the following information carefully to answer the questions that follow.

In a school there are 800 students who have visited five different cities viz. Delhi, Ajmer, Varanasi, Mumbai and Jodhpur. Fifty four per cent of the total students are boys. One-fourth of the total number of girls visited Mumbai. Twenty five per cent of the total number of girls visited Delhi. Number of girls who visited Jodhpur is half the number of girls who visited Delhi. Five-sixth of the remaining girls visited Ajmer. Total number of students who visited Mumbai is 192. One-fourth of the total number of boys visited Varanasi. 101 boys have visited Ajmer. Two-third of the remaining number of boys have visited Delhi.

71. What is the respective ratio between the number of girls who visited Delhi and number of boys who visited Mumbai?
(1) 23 : 24   (2) 23 : 50   (3) 23 : 25
(4) 50 : 23   (5) None of these

72. What is the average number of boys who visited Delhi, Varanasi and Jodhpur together?
(1) 82   (2) 77   (3) 86
(4) 76   (5) None of these

73. What is two-third of the total number of girls who visited Jodhpur and Varanasi together?
(1) 46   (2) 48   (3) 54
(4) 58   (5) None of these

74. Total number of students who visited Jodhpur is approximately what per cent of number of girls who visited Ajmer?
(1) 90   (2) 81   (3) 66
(4) 70   (5) 76

75. What is the total number of students who visited Varanasi?
(1) 121   (2) 143   (3) 111
(4) 153   (5) None of these

76. A milkman has three different qualities of milk. 403 gallons of 1st quality, 465 gallons of 2nd quality and 496 gallons of 3rd quality. Find the least possible number of bottles of equal size in which different milk of different qualities can be filled without mixing?
(a) 34   (b) 46   (c) 26
(d) 44   (e) None of these

77. The average of marks obtained by 120 candidates was 35. If the average of marks of passed candidates was 39 and that of failed candidates

was 15, the number of candidates who passed the examination is

(a) 100   (b) 110   (c) 120

(d) 150   (e) 175

78. A starts business with a capital of ₹1200. B and C join with some investments after 3 and 6 months, respectively. If at the end of a year, the profit is divided in the ratio 2 : 3 : 5 respectively, what is B's investment in the business?

(a) 2400   (b) 180   (c) 3600

(d) 6000   (e) 5500

79. Out of the total production of iron from hematite, an ore of iron, 20% of the ore from washed away, and out of the remaining iron, only 25% if pure iron. If the pure iron obtained in a year from a mine of hematite was 80,000 kg, then the quantity of hematite mined from that mine in the year is

(a) 5,00,000 kg   (b) 4,00,000 kg   (c) 4,50,000 kg

(d) 7,50,000   (e) None of these

80. The profit earned by selling an article for 900 is double the loss incurred when the same article is sold for ₹450. At what price should the article be sold to make 25% profit?

(a) 600   (b) 750   (c) 800

(d) Data inadequate (e) None of these