SBI Clerk Prelims 2020 – Quantitative Aptitude

Directions (36-40): Table given below shows the number of male and female participated in an event from five different schools (A, B, C, D & E). Study the table carefully and answer the following questions.

Schools	Male	Female
A	650	450
B	540	420
C	720	500
D	560	450
E	680	320

36. Find average number of female participated from school – A, B & D.
(a) 400 (b) 380 (c) 350
(d) 440 (e) 450

37. Total male participated from school – B & D together are how much more or less than total female participated from school – A & C together?
(a) 150 (b) 110 (c) 170
(d) 120 (e) 240

38. Total male participated from school – B & C together are what percent more or less than total female participated from school – A & D together?
(a) 20% (b) 60% (c) 50%
(d) 40% (e) 30%

39. If total male participated from school – F are 40% more than that of from school – A and ratio of female participated from school – B to that of from school – F is 21:32, then find total students participated from school – F.
(a) 1420 (b) 1550 (c) 1580
(d) 1460 (e) 1490

40. Find total number of male students participated from all the five schools together.
(a) 2860 (b) 3150 (c) 2940
(d) 3200 (e) 3020

Direction (41–45): What will come in the place of question (?) mark in following number series:

41. ?, 100, 150, 375, 1312.5
(a) 100 (b) 200 (c) 150
(d) 400 (e) 50

42. 104, ?, 96, 120, 88, 128
(a) 112 (b) 110 (c) 114
(d) 118 (e) 108

43. 15, 8, 9, 15, 32, ?
(a) 66 (b) 99 (c) 80
(d) 82.5 (e) 80.5

44. 6, 8, 14, 26, 46, ?
(a) 72 (b) 84 (c) 96
(d) 80 (e) 76

45. 72000, 36000, 12000, 3000, 600, ?
(a) 120 (b) 200 (c) 300
(d) 150 (e) 100

46. 12 men can do a work in 10 days while 10 women can do the same work in 18 days. In how many days 4 men & 6 women together can do the same work?
(a) $\frac{120}{7}$ days (b) 24 days (c) $\frac{180}{13}$ days
(d) 15 days (e) 18 days

47. A car can cover a distance in 4 hour at speed 60 kmph then by what percent should the speed of car be increased to cover the same distance in 2.5 hr?
(a) 60% (b) 40% (c) 50%
(d) 100% (e) 75%

48. The ratio of the ages of Ram and Rahim 10 years ago was 1 : 3. The ratio of their ages five years hence will be 2 : 3. Then, the ratio of their present ages is :
(a) 1 : 2 (b) 3 : 5 (c) 3 : 4
(d) 2 : 5 (e) None of these

49. Two trains of length 140m & 120m are running in same direction on parallel tracks with speeds 132 kmph & 80 kmph respectively. How much time will they take to cross each other?
(a) 7.09 sec (b) 18 sec (c) 11.7 sec
(d) 4.42 sec (e) Cannot be determined

50. A person sold a book at 20% profit. If he had bought it at 10% less cost and sold for Rs 90 more then he would have gained 40% profit. Find cost price of book.
(a) Rs 800 (b) Rs 1600 (c) Rs 1500
(d) None of these (e) Rs 1200

Direction (51–55): In each question two equations numbered (I) and (II) are given. You have to solve both the equations and mark appropriate answer.
(a) If x = y or no relation can be established
(b) If x > y
(c) If x < y
(d) If x ≥ y
(e) If x ≤ y

51. I. $x = \sqrt{25}$ **II.** $y^3 = 125$

52. I. $x^2 + 2x - 35 = 0$ **II.** $y^2 + 15y + 56 = 0$

53. I. $x^2 = 81$ **II.** $y^2 = 64$

54. I. $17x^2 - 14x - 83 = -80$ **II.** $y^2 = 2y + 35$

55. I. $x^2 + 4x - 45 = 0$ **II.** $y^2 - 13y + 40 = 0$

56. A container contains mixture of milk & water in ratio 5 : 3 respectively. If 8 lit milk is added in it then ratio of milk to water becomes 11 : 5. Find difference between initial quantity of milk & that of water.
(a) 5 lit (b) 38 lit (c) 18 lit
(d) 30 lit (e) 10 lit

57. Rs 6000 when invested at a certain rate at SI for 2 years, it fetches Rs 1200. If same sum is invested at same rate for a year compounded half – yearly then find compound interest.
(a) Rs 615 (b) Rs 600 (c) Rs 1200
(d) Rs 585 (e) Rs 1260

58. A boat can cover 28 km downstream in 42 min. ratio of speed of boat in still water to speed of stream is 7 : 3. Find difference between time taken by boat to cover 60 km downstream & 40 km upstream.
(a) 2.25 hr (b) 1 hr (c) 1.5 hr
(d) 0.4 hr (e) 0.9 hr

59. A & B entered into a business by investing total capital of Rs 17000. B withdraws Rs 1500 after 6 months and gets Rs 8100 as profit out of total profit of Rs 19500 at the end of year. Find capital of B after 6 months from starting.
(a) Rs 7000 (b) Rs 9500 (c) Rs 7500
(d) Rs 6000 (e) Rs 6500

60. If length of a rectangle increases by 40% while keeping breadth constant then area of rectangle increased by 24 m^2 and perimeter of original rectangle is 32 m. find breadth of rectangle.
(a) 8.4 m (b) 10 m (c) 6 m
(d) 14 m (e) 8 m

Direction (61–70): What will come in the place of (?) mark in following question.

61. $280 \div 4 \div 2 = 170 - ?$
(a) 105 (b) 115 (c) 125
(d) 135 (e) 145

62. $(\sqrt{144} + \sqrt{169}) \times 3 = \frac{?}{5}$
(a) 375 (b) 325 (c) 350
(d) 275 (e) 475

63. $(12 \times 5 \div 4) \times 8 = ?$
(a) 100 (b) 140 (c) 120
(d) 80 (e) 90

64. $(120\% \text{ of } 750) \div ? = 25$
(a) 30 (b) 36 (c) 24
(d) 18 (e) 48

65. $8\frac{1}{2} - 4\frac{5}{6} = ? - 3\frac{7}{12}$
(a) $3\frac{1}{4}$ (b) $3\frac{5}{12}$ (c) $2\frac{7}{12}$
(d) $7\frac{1}{4}$ (e) $5\frac{2}{3}$

66. $275 + 64\% \text{ of } 750 = 750 + ?$
(a) 25 (b) 8 (c) 10
(d) 15 (e) 5

67. $\sqrt{225} + \sqrt{81} + 12^2 = ?$
(a) 168 (b) 164 (c) 162
(d) 172 (e) 182

68. $\frac{510}{?} = \sqrt{324} + 3.25$
(a) 12 (b) 48 (c) 24
(d) 6 (e) 18

69. 12.5% of (120 + ?) = 45
(a) 160 (b) 180 (c) 360
(d) 240 (e) 120

70. $572 \div 13 \times 12 - 16 = (8)^?$
(a) 4 (b) 2 (c) 3
(d) 5 (e) None of these