APCOB Staff Assistant – 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
А	650	450
В	540	420
С	720	500
D	560	450
Е	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. (3) 2860 (h) 3150 (c) 2940

(a) 2000	(0) 3130	(C) 294
(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, ?, 9 (a) 112 (d) 118	96, 120, 88, (b) 110 (e) 108	128	(c) 114
43. 15, 8, 9, (a) 66 (d) 82.5	15, 32, ? (b) 99 (e) 80.5		(c) 80

44. 6. 8. 14. 26. 46. ?

, , , , , ,		
(a) 72	(b) 84	(c) 96
(d) 80	(e) 76	

- 45. 72000, 36000, 12000, 3000, 600, ? (c) 300 (a) 120 (b) 200 (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) $\frac{120}{2}$ days	(b) 24 days	(c) <u>180</u> days
7		13
(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 thes	se

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 $x \ge y$ (e) If $x \le y$ **51.** I. $x = \sqrt{25}$ **52.** I. $x^2 + 2x - 35 = 0$ **53. I.** x² = 81

II. $y^3 = 125$ **II.** $y^2 + 15y + 56 = 0$ **II.** $y^2 = 64$ **54.** I. $17x^2 - 14x - 83 = -80$ **II.** $y^2 = 2y + 35$ **55.** I. $x^2 + 4x - 45 = 0$ **II.** $v^2 - 13v + 40 = 0$

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56. A container contains mixture of milk & water in ratio 5 :3 respectively. If 8 lit milk is added in it then ratio of	Direction (61–70): What will come in the place of (?) mark in following question.
milk to water becomes 11 : 5. Find difference between	61. $280 \div 4 \div 2 = 170 - ?$
initial quantity of milk & that of water.	(a) 105 (b) 115 (c) 125
	$\begin{array}{c} (a) 105 \\ (b) 115 \\ (c) 125 \\$
(a) 5 lit (b) 38 lit (c) 18 lit	
(d) 30 lit (e) 10 lit	62. $\frac{1}{(\sqrt{144} + \sqrt{169})} \times 3 = \frac{2}{5}$
57 Be 6000 when invested at a contain rate at SI for 2 years	
57. Rs 6000 when invested at a certain rate at SI for 2 years,	(a) 5/5
it fetches Rs 1200. If same sum is invested at same rate	(d) 275 (e) 475
for a year compounded half - yearly then find compound	63. $(12 \times 5 \div 4) \times 8 = ?$
interest.	(a) 100 (b) 140 (c) 120
(a) Rs 615 (b) Rs 600 (c) Rs 1200	(d) 80 (e) 90
(d) Rs 585 (e) Rs 1260	64. (120% of 750) ÷ ? = 25
	(a) 30 (b) 36 (c) 24
58. A boat can cover 28 km downstream in 42 min. ratio	(d) 18 (e) 48
of speed of boat in still water to speed of stream is 7 :	$65 8^{1} - 4^{5} = 2 - 2^{7}$
3. Find difference between time taken by boat to cover	65. 0^{-}_{2} 4^{-}_{6} 1^{-}_{12} 7
60 km downstream & 40 km upstream.	(a) $3\frac{1}{4}$ (b) $3\frac{5}{12}$ (c) $2\frac{7}{12}$
(a) 2.25 hr (b) 1 hr (c) 1.5 hr	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) $5\frac{2}{2}$
	4 3
(d) 0.4 hr (e) 0.9 hr	66. 275 + 64% of 750 = 750 + ?
59. A & B entered into a business by investing total capital	(a) 25 (b) 8 (c) 10
of Rs 17000. B withdraws Rs 1500 after 6 months and	(d) 15 (e) 5
	67. $\sqrt{225} + \sqrt{81} + 12^2 = ?$
gets Rs 8100 as profit out of total profit of Rs 19500 at	(a) 168 (b) 164 (c) 162
the end of year. Find capital of B after 6 months from	(d) 172 (e) 182
starting.	
(a) Rs 7000 (b) Rs 9500 (c) Rs 7500	$68.\frac{510}{2} = \sqrt{324} + 3.25$
(d) Rs 6000 (e) Rs 6500	(a) 12 (b) 48 (c) 24
	(d) 6 (e) 18
60. If length of a rectangle increases by 40% while keeping	69. 12.5% of $(120 + ?) = 45$
breadth constant then area of rectangle increased by 24	(a) 160 (b) 180 (c) 360
m ² and perimeter of original rectangle is 32 m. find	$\begin{array}{c} (a) 100 \\ (b) 180 \\ (c) 300 \\$
breadth of rectangle.	
(a) 8.4 m (b) 10 m (c) 6 m	70. $572 \div 13 \times 12 - 16 = (8)^{?}$
(d) 14 m (e) 8 m	(a) 4 (b) 2 (c) 3
	(d) 5 (e) None of these