

Quiz Date: 2nd July 2020

Directions (1-5): What will come in place of questions mark (?) in following no. series?

Q1. 6, 35, 174, 695, 2084, ?

- (a) 4167
- (b) 5167
- (c) 2083
- (d) 4166
- (e) 4267

Q2. 12, 14.5, 22, 34.5, 52, ?

- (a) 79.5
- (b) 74.5
- (c) 69.5
- (d) 76.5
- (e) 68.5

Q3. 1.5, 5, 24, 150, 1208, ?

- (a) 10090
- (b) 11090
- (c) 12090
- (d) 9672
- (e) 14508

Q4. 150, 30, 120, 40, 80, ?

- (a) 140
- (b) 160
- (c) 40
- (d) 80
- (e) 120

Q5. 343, 392, 428, 453, 469, ?

- (a) 478
- (b) 473
- (c) 487
- (d) 480
- (e) 477

Directions (6-10): What should come in place of question mark (?) in the following given questions(just calculate the approximate value) ?

Q6. $(9 \times 9)^3 \div (729 \div 9)^4 \times (243 \times 9)^2 = (3)^{?+6}$

- (a) 22
- (b) 4
- (c) 8



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- (d) 7
(e) 12

Q7. 119.97% of $1500.024 + 40.08\%$ of $2850.001 = 2419.998 + 24.001\%$ of ?

- (a) 2168
(b) 1208
(c) 2804
(d) 3206
(e) 1608



Q8. 0.2% of $356 + 0.8\%$ of $779 = ?$

- (a) 10
(b) 17
(c) 20
(d) 2
(e) 7

Q9. $1399 \div 35.0098 + \sqrt{1026} \times 20.0801 = ?$

- (a) 660
(b) 680
(c) 620
(d) 650
(e) 780

Q10. $0.052 \div 0.001 \times 59.989 = 29.966\%$ of $399.98 \times ?$

- (a) 46
(b) 56
(c) 16
(d) 26
(e) 52

Directions (11-15): In the following table, number of students studying in five different branches of a university is given for the year 2017. Also given the percentage of students participating in two different games (Hockey and Football). Study the table carefully and answer the questions that follow:

Branches	Total Students	Sports for participation	
		Hockey	Football
Mechanical	480	25%	15%
Electrical	320	20%	25%
Civil	260	30%	10%
Computer Science	450	10%	40%
Electronics	300	16%	30%

Q11. What will be the difference between students playing Hockey and football together from Electrical branch and the no. of students playing the same games from Electronics branch?

- (a) 8
- (b) 6
- (c) 12
- (d) 11
- (e) 18

Q12. If 40% students in Mechanical branch are girls then find the ratio of girls playing Hockey from Mechanical branch to the students playing Football from Civil branch?

- (a) 24 : 13
- (b) 25 : 17
- (c) 13 : 24
- (d) Cannot be determined
- (e) None of these

Q13. Total no. of students playing Hockey and Football from Computer Science branch are approximately what percent of total no. of students playing the same games from Mechanical branch?

- (a) 125%
- (b) 120%
- (c) 117%
- (d) 113%
- (e) 135%

Q14. Find the approximate average no. of students playing Football from all branches.

- (a) 81
- (b) 93
- (c) 95
- (d) 85
- (e) 90

Q15. If 40%, 30% and 50% students are girls in respected branches Electrical, Civil and computer Science, then find the average no. of girls from these branches who participate in Hockey if percentage of girls participating in Hockey are 10%,15% and 12% from respected branches (approximately).

- (a) 21
 (b) 23
 (c) 24
 (d) 17
 (e) 26



Solutions

S1. Ans. (a)

Sol.

Series is

$$\begin{array}{cccccc}
 6 & & 35 & & 174 & & 695 & & 2084 & & 4167 \\
 | & & \uparrow & | & \uparrow & | & \uparrow & | & \uparrow & | & \uparrow \\
 \times 6-1 & & \times 5-1 & & \times 4-1 & & \times 3-1 & & \times 2-1 & &
 \end{array}$$

S2. Ans. (b)

Sol.

Series is

$$\begin{array}{cccccc}
 12 & & 14.5 & & 22 & & 34.5 & & 52 & & 74.5 \\
 | & & \uparrow & | & \uparrow & | & \uparrow & | & \uparrow & | & \uparrow \\
 +2.5 & & +7.5 & & +12.5 & & +17.5 & & +22.5 & & \\
 \uparrow & & \\
 2.5 \times 1 & & 2.5 \times 3 & & 2.5 \times 5 & & 2.5 \times 7 & & 2.5 \times 9 & &
 \end{array}$$

S3. Ans. (c)

Sol.

Series is

$$1.5 \times 2 + 2 = 5$$

$$5 \times 4 + 4 = 24$$

$$24 \times 6 + 6 = 150$$

$$150 \times 8 + 8 = 1208$$

$$1208 \times 10 + 10 = 12090$$

S4. Ans. (d)

Sol.

Series is

$$150 \div 5 = 30$$

$$30 \times 4 = 120$$

$$120 \div 3 = 40$$

$$40 \times 2 = 80$$

$$80 \div 1 = 80$$

S5. Ans. (a)

Sol.

Pattern is

$$343 + 7^2 = 343 + 49 = 392$$

$$392 + 6^2 = 392 + 36 = 428$$

$$428 + 5^2 = 428 + 25 = 453$$

$$453 + 4^2 = 453 + 16 = 469$$

$$469 + 3^2 = 469 + 9 = 478$$

S6. Ans.(b)

Sol.

$$(3^4)^3 \div (3^4)^4 \times (3^7)^2 = (3)^{?+6}$$

$$\frac{3^{12} \times 3^{14}}{3^{16}} = (3)^{?+6}$$

$$3^{10} = (3)^{?+6}$$

$$? + 6 = 10$$

$$? = 4$$

S7. Ans.(a)

Sol.

$$\frac{120}{100} \times 1500 + \frac{40}{100} \times 2850 = 2420 + \frac{24}{100} \times ?$$

$$1800 + 1140 = 2420 + \frac{24}{100} \times ?$$

$$? = 2166.67 \approx 2168$$

S8. Ans.(e)

Sol.



$$\begin{aligned} &\approx \frac{0.2}{100} \times 355 + \frac{0.8}{100} \times 780 \\ &\approx 0.71 + 6.24 \\ &\approx 6.95 \approx 7 \end{aligned}$$

S9. Ans.(b)

Sol.

$$\begin{aligned} &\approx \frac{1400}{35} + \sqrt{1024} \times 20 \\ &\approx 40 + 32 \times 20 \approx 40 + 640 \\ &\approx 680 \end{aligned}$$

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S10. Ans.(d)

Sol.

$$\begin{aligned} &\approx 52 \times 60 \approx 120 \times ? \\ ? &= 26 \end{aligned}$$

S11. Ans.(b)

Sol.

Student playing Hockey and Football together from Electrical branch
= 20% of 320 + 25% of 320
= 144

Students playing Hockey and Football together from Electronics branch
= 16% of 300 + 30% of 300
= 138

∴ Required difference = 144 - 138
= 6

S12. Ans. (d)

Sol.

Here we don't know what percentage of girls who play Hockey. So, we cannot find the required answer.

S13. Ans.(c)

Sol.

Total no. of students playing Hockey and Football

$$\text{from CS branch} = (10+40) \% \text{ of } 450 \\ = 225$$

Total no. of student playing Hockey and Football both from Mechanical branch

$$= (25 + 15)\% \text{ of } 480 \\ = 192$$

$$\therefore \text{required percentage} = \frac{225}{192} \times 100 \\ = 117.18 \\ = 117\%$$

S14. Ans.(e)

Sol.

Required average no. = $\frac{1}{5} \times (15\% \text{ of } 480 + 25\% \text{ of } 320 + 10\% \text{ of } 260 + 40\% \text{ of } 450 + 30\% \text{ of } 300)$

$$= \frac{1}{5} \times (72 + 80 + 26 + 180 + 90) \\ = \frac{448}{5} \\ \approx 90$$

S15. Ans.(d)

Sol.

Required average no. of girls

$$= \frac{1}{3} \times (10\% \text{ of } 40\% \text{ of } 320 + 15\% \text{ of } 30\% \text{ of } 260 + 12\% \text{ of } 50\% \text{ of } 450)$$

$$= \frac{1}{3} \times (12.8 + 11.7 + 27)$$

$$= \frac{1}{3} \times 51.5$$

$$= 17.166$$

$$\approx 17$$

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