

Quiz Date: 2nd March 2020

Directions (1-5): What should come in place of question mark (?) in the following questions?

Q1. 441, 445, 461, 497, 561, ?

- (a) 661
- (b) 599
- (c) 687
- (d) 654
- (e) 693

Q2. 625, 526, 446, 383, 335, ?

- (a) 280
- (b) 287
- (c) 299
- (d) 300
- (e) 324

Q3. 15, 24, 30, 48, 60, ?

- (a) 72
- (b) 86
- (c) 64
- (d) 96
- (e) 104

Q4. 32, 16, 24, 60, 210, ?

- (a) 640
- (b) 810
- (c) 512
- (d) 664
- (e) 945

Q5. 216, 223, 251, 314, 440, ?

- (a) 645
- (b) 635
- (c) 655
- (d) 675
- (e) 665

Directions (6-10): Find out the value which should replace the question mark (?) in the following questions.

Q6. $4434 - 2212 - 1133 + 3377 = ?$

- (a) 4234
- (b) 3986



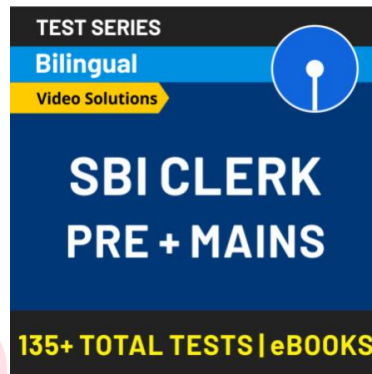
- (c) 3243
- (d) 4466
- (e) 3846

Q7. $30\% \text{ of } 260 + 60\% \text{ of } 510 - 104 = ?$

- (a) 420
- (b) 310
- (c) 240
- (d) 320
- (e) 280

Q8. $1300 \div 20 \times 25 + 400 = ?$

- (a) 2320
- (b) 2025
- (c) 2165
- (d) 1920
- (e) 1610



Q9. $8600 \div 430 \times 15 = ?$

- (a) 240
- (b) 275
- (c) 300
- (d) 330
- (e) 380

Q10. $40\% \text{ of } 405 + 65\% \text{ of } 620 - 184 = ?$

- (a) 381
- (b) 311
- (c) 430
- (d) 361
- (e) 421

Directions (11-15): Study the given information carefully and answer the questions.

In a college, there are 3 types of games (i.e. Hockey, Cricket and Football) organized by the college for its students. Total 2100 students participate in the games. Some of the students participate in 1 game while some students participate in two games and remaining students

participate in three games. $\frac{1}{7}$ th of total students play only hockey and 420 students play only football. Number of students who play both hockey and Cricket only are as much as 90% of students who play only Hockey. 350 students play only Cricket. Number of students who play only Hockey are as much as number of students who play both Cricket and Football only. Number of participants who play all of three games and who play both Hockey and Football only are in the ratio of 17:6.

Q11. How many students participate in all of three games together?

- (a) 320
- (b) 380
- (c) 500
- (d) 340
- (e) 420

Q12. Find the sum of number of students who participate in both Cricket & Football only and who participate in both Football & Hockey only?

- (a) 420
- (b) 380
- (c) 500
- (d) 320
- (e) 610

Q13. What is the ratio of participant who play both Hockey and Cricket only to that of only Football?

- (a) 9:7
- (b) 9:14
- (c) 7:9
- (d) 7: 13
- (e) 5: 9



Q14. Number of participants who play only Football is what percent more than that of only Cricket?

- (a) 32%
- (b) 42%
- (c) 20%
- (d) 22.5%

(e) 25%

Q15. How many students who participate only in one game?

(a) 1060

(b) 1040

(c) 1050

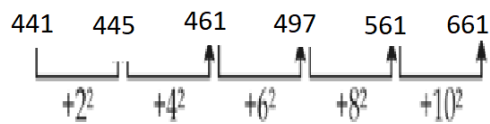
(d) 1070

(e) 940

Solutions

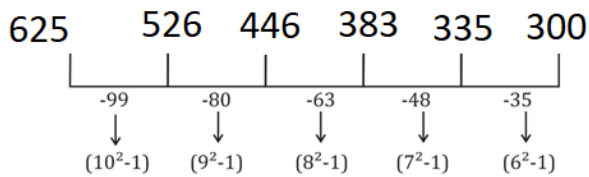
S1. Ans.(a)

Sol.



S2. Ans.(d)

Sol.



S3. Ans.(d)

Sol.

There are two series .

15, 30, 60 (which is the 2 times of previous number)

24, 48, ?

So, $24 \times 2 = 48$ $48 \times 2 = 96$

S4. Ans.(e)

Sol. $32 \times 0.5 = 16$ $16 \times 1.5 = 24$ $24 \times 2.5 = 60$ $60 \times 3.5 = 210$ $? = 210 \times 4.5 = 945$

S5. Ans.(c)

Sol. $216 + (2^3 - 1) = 223$

$$223 + (3^3 + 1) = 251$$

$$251 + (4^3 - 1) = 314$$

$$314 + (5^3 + 1) = 440$$

$$? = 440 + (6^3 - 1) = 655$$

S6. Ans.(d)

$$\begin{aligned} \text{Sol. ?} &= 4434 - 2212 - 1133 + 3377 \\ &= 4466 \end{aligned}$$

S7. Ans.(e)

$$\begin{aligned} \text{Sol. ?} &= 260 \times \frac{30}{100} + 510 \times \frac{60}{100} - 104 \\ &= 78 + 306 - 104 \\ &= 280 \end{aligned}$$

S8. Ans.(b)

$$\begin{aligned} \text{Sol. } \frac{1300}{20} \times 25 + 400 &=? \\ &= 1625 + 400 \\ &= 2025 \end{aligned}$$

S9. Ans.(c)

$$\begin{aligned} \text{Sol. } \frac{8600}{430} \times 15 &=? \\ &= 20 \times 15 = 300 \end{aligned}$$

S10. Ans.(a)

$$\begin{aligned} \text{Sol. ?} &= 405 \times \frac{40}{100} + 620 \times \frac{65}{100} - 184 \\ &= 162 + 403 - 184 \\ &= 381 \end{aligned}$$

S11-15.

ATQ,

$$\text{Number of participants who plays only hockey} = \frac{1}{7} \times 2100 = 300$$

$$\text{Number of participants who plays only Football} = 420$$

$$\text{Number of participants who plays only Cricket} = 350$$

$$\text{Number of participants who plays both hockey and Cricket only} = 90\% \text{ of } 300 = 270.$$

$$\text{Number of participants who plays both Football and Cricket only} = 300$$

$$\text{Let number of participants who play both hockey and football only} = 6x$$

$$\text{And number of participants who play all the three games} = 17x$$

ATQ,

$$6x + 17x = 2100 - 300 - 420 - 350 - 270 - 300$$

$$23x = 460$$

$$x = 20$$

$$\text{So, number of participants who play both hockey and football only} = 120$$

$$\text{And number of participants who play all the three games} = 340.$$

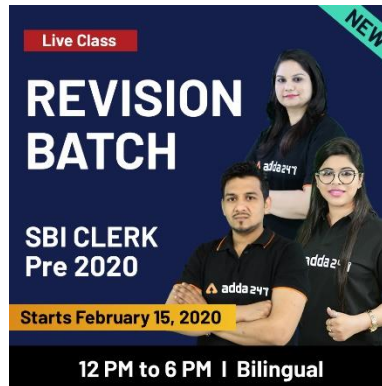
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S11. Ans. (d)

Sol.

Required participant = 340



S12. Ans. (a)

Sol.

Required participant = 300+120=420

S13. Ans. (b)

Sol.

Required ratio = 270 : 420
= 9:14

S14. Ans. (c)

Sol.

Required percentage = $\frac{420-350}{350} \times 100$
= 20%

S15. Ans. (d)

Sol.

Required number = 300+350+420
= 1070

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