Quiz Date: 3rd March 2020

Directions (1-5):- What approximate value will come in place of question mark (?) in the following questions. (You are not expected to find the exact value)

Q1. $19.98 \times \frac{3.008}{2.014} - 27.101 = ?$

(a) 2

(b) 4

(c) 3

(d) 5

(e) 1

Q2. $(13.989 \times 5.099) + 4.985 \times 1.0984 = 15.014 \times ?$

(a) 7

(b) 1

(c) 3

(d) 4

(e) 5

Q3. $3.050 + 2.5011 + 9.0998 - 4.5020 + 2.0515 = ?$

(a) 17

(b) 12

(c) 18

(d) 11

(e) 10

Q4. $728.992 \div 27.014 \times 2.989 = ?$

(a) 81

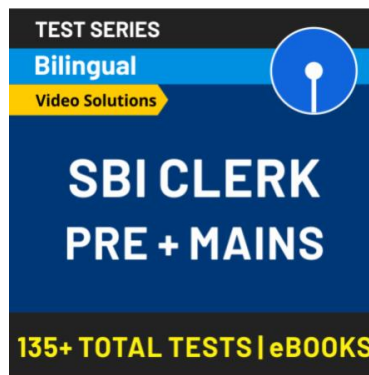(b) 75

(c) 66

(d) 80

(e) 68

Q5. $(6.0012)^3 + 3.911 = 39.979 + 4.99 \times ?$

(a) 26

(b) 38

(c) 36

(d) 40

(e) 30

Q6. Veer scores 84 in Quantitative aptitude while he scores 64 in Reasoning. Deepak scores 74 in Quantitative aptitude. If the average marks of Veer is 5 marks more than average marks of Deepak in the both subjects. Find marks of Deepak in Reasoning? (max marks in both subjects be 100 marks)

(a) 70

(b) 64

(c) 84

(d) 68

(e) 75

Q7. If a boat can travel 48 km more in downstream than in upstream in 6 hours. If the speed of the boat in still water is 16 kmph. find the time taken by boat to travels 204 km in upstream?

(a) 16 hours

(b) 15 hours

(c) 18 hours

(d) 17 hours

(e) 14 hours

Q8. Two dice are thrown simultaneously. What is the probability of getting sum of numbers obtained on two dice divisible by 5?

(a) $\frac{1}{4}$

(b) $\frac{1}{6}$

(c) $\frac{7}{36}$

(d) $\frac{5}{36}$

(e) $\frac{5}{18}$

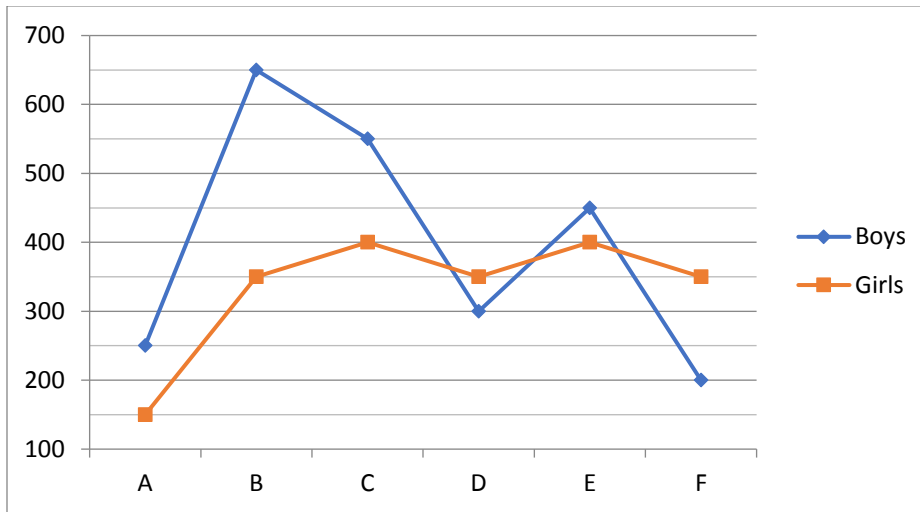Q9. How many words can be formed with the letter of the word EDUCATION such that all vowels come together?

(a) 5!

(b) 10!

(c) 14400

(d) 17280

(e) 8!

Q10. Gomti express train leave a station at a certain time and at a fixed speed. After, 2 hours, Tejas train leave the same station and in the same direction moving at a certain speed of 120 kmph. The train catches the Gomti express in 4 hours. Find the speed of Gomti Train?

(a) 80 kmph

(b) 75 kmph

(c) 78 kmph

(d) 72 kmph

(e) 84 kmph

Directions (11-15):- Given line graph shows the number of Boys and Girls in 6 different college. Read the data carefully and answer the questions.

(Total Students = Boys + Girls)

Q11. Total students of college C is what percentage more or less than that of college B?

(a) 5%

(b) 7.5%

(c) 10%

(d) 15%

(e) 12%

Q12. If in College B, girls scholarship holder is $33\frac{1}{3}$% less than boy's scholarship holder and total scholarship holder in the college is 50% of the total population. Find the number of non-scholarship holder boys?

(a) 250

(b) 320

(c) 350

(d) 420

(e) 180

Q13. Find the average number of boys in all college together?

(a) 420

(b) 510

(c) 480

(d) 390

(e) 400

Q14. Boys in college F is what percentage of girls in college C?

(a) 54%

(b) 50 %

(c) 52%

(d) 33.33%

(e) 55%

Q15. Find the ratio of Boys in college C & E together to girls in college B & D together?

(a) 7 : 10

(b) 10 : 7

(c) 3 : 5

(d) 5 : 7

(e) 7 : 9

Solutions

S1. Ans(c)

Sol. $19.98 \times \frac{3.008}{2.014} - 27.101 = ?$

$20 \times \frac{3}{2} - 27 \approx ?$

$? \approx 3$

S2. Ans(e)

Sol. $(13.989 \times 5.099) + 4.985 \times 1.0984 = 15.014 \times ?$

$14 \times 5 + 5 \times 1 \approx 15 \times ?$

$? \approx 5$

S3. Ans(b)

Sol. $3.050 + 2.5011 + 9.0998 - 4.5020 + 2.0515 = ?$

$3 + 2.5 + 9 - 4.5 + 2 \approx ?$

$? \approx 12$

S4. Ans(a)

Sol. $728.992 \div 27.014 \times 2.989 = ?$

$\frac{729}{27} \times 3 \approx ?$

$? \approx 81$

S5. Ans(c)

Sol. $(6.0012)^3 + 3.911 = 39.979 + 4.99 \times?$

$216 + 4 \approx 40 + 5 \times?$

$? \approx \frac{180}{5} = 36$

S6. Ans(b)

Sol. average score of Veer = $\frac{84+64}{2} = 74$

Let score by Deepak in Reasoning be x.

ATQ, $\frac{x+74}{2} = 74 - 5 = 69$

$x = 138 - 74 = 64$

S7. Ans. (d)

Sol.

Let speed of current be y kmph.

ATQ,

$(16 + y) - (16 - y) = \frac{48}{6} = 8$

Y=4 kmph.

Required time = $\frac{204}{16-4} = 17 \ hours.$

S8. Ans(c)

Sol. total possible outcomes = $6^2 = 36$

Favourable events = sum should be divisible by 5

= (1,4),(2,3) (3,2) (4,1), (4,6) (5,5) (6,4)

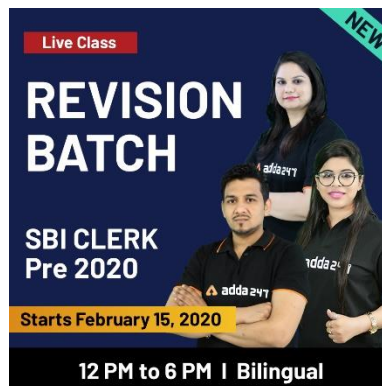Required probability = $\frac{7}{36}$

S9. Ans(c)

Sol. required no. of words = $5! \times 5! = 120 \times 120 = 14400$

S10. Ans(a)

Sol. let speed of Gomti express be S kmph.

Distance travelled by Tejas train in 4 hr=$120 \times 4 = 480$ km

Therefore, Gomti express takes 6 hr to cover the distance of 480 km

Speed of Gomti Express = $\frac{480}{6}$ = 80 km/hr

S11. Ans(a)

Sol. total Students of college C = $550 + 400 = 950$

Total students of college B = $650 + 350 = 1000$

Required % = $\frac{1000-950}{1000} \times 100 = 5\%\ less$

S12. Ans(c)

Sol. total scholarship students in college B = $\frac{50}{100} \times (650 + 350) = 500$

Boy's scholarship holder = $\frac{3}{5} \times 500 = 300$

Boys college B who are not scholarship holder = $650 - 300 = 350$

S13. Ans(e)

Sol. required average = $\frac{250+650+550+300+450+200}{6} = \frac{2400}{6} = 400$

S14. Ans(b)

Sol. required % = $\frac{200}{400} \times 100 = 50\%$

S15. Ans(b)

Sol.

Boys in college C & E together = $550 + 450 = 1000$

Girls in college B & D together = $350 + 350 = 700$

Required ratio = $1000 : 700 = 10 : 7$

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