

Quiz Date: 29th February 2020

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

Q1. $7^? = 343 \div 512 \times 64 \times 56 \div 49$

- (a) 1
- (b) 3
- (c) 5
- (d) 4
- (e) 2

Q2. $5^? = 25^{4.9} \div 5^{3 \times 0.6} \div 125 \times 625^{0.5}$

- (a) 5
- (b) 4
- (c) 7
- (d) 6
- (e) 8

Q3. $? = 225 \div 45 \div 0.5 \times 75$

- (a) 250
- (b) 750
- (c) 500
- (d) 150
- (e) 900

Q4. $70\% \text{ of } 500 - 200\% \text{ of } 74 + 12 \times 15 - 382 = ?$

- (a) 1
- (b) -2
- (c) -1
- (d) 0
- (e) 2

Q5. $12^3 - 10800 \div 36 + ? = 11^3$

- (a) -98
- (b) -95
- (c) -100
- (d) -92
- (e) -97

Q6. The respective ratio of the present ages of Anshu and her mother is 1 : 2. After 6 yrs the ratio of their ages will be 11 : 20. 9 years before, what was the respective ratio of their ages ?

- (a) 3 : 5
- (b) 2 : 7
- (c) 1 : 4

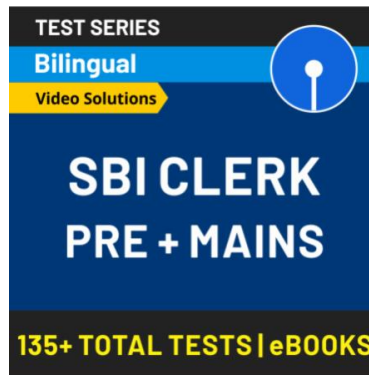
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- (d) 2 : 5
- (e) 5 : 7

Q7. How many different words can be formed with the letters of the word UNIVERSITY so that all the vowels are together?

- (a) 60840
- (b) 60480
- (c) 60460
- (d) 40680
- (e) None of these



Q8. The radius of a circular wheel is $\frac{7}{4}$ metre. How many revolutions will it make in travelling 22 kilometres?

- (a) 1500
- (b) 2500
- (c) 1800
- (d) 2000
- (e) 2400

Q9. A trader marks his goods 30% above the cost price and gives a discount of 15% on the marked price. What gain% does he make?

- (a) 10.5%
- (b) 12%
- (c) 10%
- (d) 14.5%
- (e) 16.5%

Q10. 30 laborer's working 7 hours a day can finish a piece of work in 18 days. If the laborer's work 6 hours a day, then the number of laborers required to finish the same piece of work in 30 days will be

- (a) 15
- (b) 21
- (c) 25
- (d) 22
- (e) 28

Directions (11 - 15): What will come in place of question mark (?) in the following number series?

Q11. 1, 2, 6, 33, 49, 174, ?

- (a) 255
- (b) 284
- (c) 210
- (d) 251
- (e) 198

Q12. 1728, 1740, 1764, 1800, 1848, 1908, ?

- (a) 1980
- (b) 1988
- (c) 2008
- (d) 1976
- (e) 1955

Q13. 4, 4, 9, 29, 119, 599, ?

- (a) 1242
- (b) 1642
- (c) 1824
- (d) 3599
- (e) 4023

Q14. 49, 47, 53, 41, 61, 31, ?

- (a) 75
- (b) 73
- (c) 71
- (d) 79
- (e) 81

Q15. 80, 122, 168, 226, 288, 362, ?

- (a) 420
- (b) 440
- (c) 480
- (d) 460
- (e) 520



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Solutions

S1. Ans(e)

$$\text{Sol. } 7^? = \frac{343}{512} \times 64 \times \frac{56}{49}$$
$$7^? = 49$$

$$? = 2$$

S2. Ans(c)

$$\text{Sol. } 5^? = 5^{2 \times 4.9} \div 5^{3 \times 0.6} \div 5^3 \times 5^{0.5 \times 4}$$

$$5^? = 5^{9.8 - 1.8 - 3 + 2}$$

$$? = 7$$



S3. Ans(b)

$$\text{Sol. } ? = 225 \times \frac{1}{45} \times \frac{1}{0.5} \times 75$$

$$? = 750$$

S4. Ans(d)

$$\text{Sol. } \frac{70}{100} \times 500 - \frac{200}{100} \times 74 + 180 - 382 = ?$$

$$? = 350 - 148 + 180 - 382$$

$$? = 0$$

S5. Ans(e)

$$\text{Sol. } 1728 - \frac{10800}{36} + ? = 1331$$

$$? = 1331 - 1728 + 300$$

$$? = -97$$

S6. Ans.(d)

Sol. Let present age of Anshu and her mother be x & y years respectively.

$$\therefore \frac{x}{y} = \frac{1}{2}$$

$$\text{and } \frac{x+6}{y+6} = \frac{11}{20}$$

on solving, $x = 27$ and $y = 54$

$$\therefore \text{Required ratio} = \frac{18}{45} = \frac{2}{5}$$

S7. Ans.(b)

$$\text{Sol. Required number of words} = \frac{4! \times 7!}{2} = 60480$$

S8. Ans.(d)

Sol. Number of revolutions = $\frac{22000}{2 \times \frac{22}{7} \times \frac{7}{4}} = 2000$ revolutions.

S9. Ans.(a)

Sol. Let C.P. be Rs. 100

$$\therefore \text{S.P.} = \frac{85}{100} \times 130 = \text{Rs. } 110.5$$

$$\therefore \text{Profit\%} = \frac{10.5}{100} \times 100 = 10.5\%$$

S10. Ans.(b)

Sol. Required number of laborer's = $\frac{30 \times 7 \times 18}{6 \times 30} = 21$ days

S11. Ans. (c)

Sol.

$$1+1^3 = 2$$

$$2+2^2 = 6$$

$$6+3^3 = 33$$

$$33+4^2 = 49$$

$$49+5^3 = 174$$

$$\text{So, } 174+6^2 = 210$$

S12. Ans. (a)

Sol.

$$1728+12=1740$$

$$1740+24=1764$$

$$1764+36=1800$$

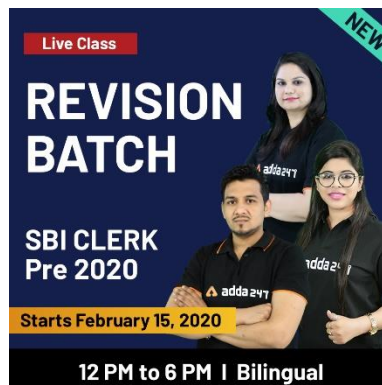
$$1800+48=1848$$

$$1848+60=1908$$

$$\text{So, } 1908+72=1980$$

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S13. Ans. (d)

Sol.

$$4 \times 1 + 0 = 4$$

$$4 \times 2 + 1 = 9$$

$$9 \times 3 + 2 = 29$$

$$29 \times 4 + 3 = 119$$
$$119 \times 5 + 4 = 599$$
$$599 \times 6 + 5 = 3599$$

S14. Ans. (b)

Sol.

$$49 - (1 \times 2) = 47$$

$$47 + (2 \times 3) = 53$$

$$53 - (3 \times 4) = 41$$

$$41 + (4 \times 5) = 61$$

$$61 - (5 \times 6) = 31$$

$$\text{So, } 31 + (6 \times 7) = 73$$

S15. Ans. (b)

Sol.

$$9^2 - 1 = 80$$

$$11^2 + 1 = 121$$

$$13^2 - 1 = 168$$

$$15^2 + 1 = 226$$

$$17^2 - 1 = 288$$

$$19^2 + 1 = 362$$

$$\text{So, } 21^2 - 1 = 440$$

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