

Quiz Date: 30th July 2020

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

Q1. $35\% \text{ of } 180 + 18^2 = (27)^{\frac{5}{3}} + ?^2$

- (a) 16
- (b) 14
- (c) 8
- (d) 12
- (e) 18

Q2. $\frac{323}{357} \times 441 - 15 \times 21 = ?$

- (a) 84
- (b) 63
- (c) 42
- (d) 21
- (e) 105

Q3. $7\frac{4}{5} - 3\frac{2}{3} + 4\frac{8}{15} = \frac{234}{?}$

- (a) 9
- (b) 18
- (c) 27
- (d) 54
- (e) 81

Q4. $?^{\frac{2}{3}} = 64\% \text{ of } 150 + 7 \times 3 - 9^2$

- (a) 27
- (b) 343
- (c) 125
- (d) 64
- (e) 216

Q5. $? \times 4 - 40^2 = 14^2 - 36 \times 44$

- (a) 45
- (b) 51
- (c) 53
- (d) 55
- (e) 57

Directions (6-15): What will come in place of question mark (?) in the following number series?

Q6. 1130, 1164, 1232, 1334, 1470, ?

- (a) 1674

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- (b) 1640
- (c) 1606
- (d) 1572
- (e) 1623

Q7. 353, 54, 380, 81, 444, 145, 569, ?, 785

- (a) 209
- (b) 361
- (c) 270
- (d) 226
- (e) 488

Q8. 2, 6, 21, 88, 445, ?

- (a) 3122
- (b) 2230
- (c) 2766
- (d) 2676
- (e) 3568



Q9. 5, 6, 9.5, 15, 18.5, 33, 32, ?

- (a) 51
- (b) 68
- (c) 58
- (d) 60
- (e) 63

Q10. 12, 6, 9, 22.5, 78.75, ?

- (a) 345.375
- (b) 354.375
- (c) 374.535
- (d) 375.435
- (e) 343.755

Q11. 23, 29, 17, 35, ?, 41

- (a) 13
- (b) 11

- (c) 12
- (d) 18
- (e) 21

Q12. 6, 10, 17, 28.5, 46.75, ?

- (a) 77.125
- (b) 76.125
- (c) 75.125
- (d) 75.25
- (e) 72.75

Q13. 670, 894, 1150, 1438, ?

- (a) 1758
- (b) 1594
- (c) 1930
- (d) 1290
- (e) 1225

Q14. 3, 5, 19, 101, ?, 6445

- (a) 710
- (b) 712
- (c) 714
- (d) 715
- (e) 725

Q15. 7, 8, 16, 12, 41, 28, ?

- (a) 90
- (b) 85
- (c) 92
- (d) 86
- (e) 84



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Solutions

S1. Ans.(d)

Sol.

$$\Rightarrow 35\% \text{ of } 180 + 18^2 = (27)^{\frac{5}{3}} + ?^2$$

$$\Rightarrow 63 + 324 = 243 + ?^2$$

$$\Rightarrow 387 - 243 = ?^2$$

$$\Rightarrow ?^2 = 144$$

$$\Rightarrow ? = 12$$

S2. Ans.(a)

Sol.

$$\frac{323}{357} \times 441 - 15 \times 21 = ?$$

$$\Rightarrow \frac{19 \times 17}{17 \times 21} \times 441 - 15 \times 21 = ?$$

$$\Rightarrow ? = 19 \times 21 - 15 \times 21 = 4 \times 21 = 84$$

S3. Ans.(c)

Sol.

$$7\frac{4}{5} - 3\frac{2}{3} + 4\frac{8}{15} = \frac{234}{?}$$

$$8 + \frac{12-10+8}{15} = \frac{234}{?}$$

$$8 + \frac{2}{3} = \frac{234}{?}$$

$$\frac{26}{3} = \frac{234}{?}$$

$$\Rightarrow ? = 27$$



S4. Ans.(e)

Sol.

$$\frac{2}{3} = 64\% \text{ of } 150 + 7 \times 3 - 9^2$$

$$\frac{2}{3} = 96 + 21 - 81$$

$$\frac{2}{3} = 36$$

$$\Rightarrow ? = 36^{\frac{3}{2}} = 216$$

S5. Ans.(c)

Sol.

$$? \times 4 - 40^2 = 14^2 - 36 \times 44$$

$$? \times 4 = 196 + 40^2 - (40 - 4) \times (40 + 4)$$

$$? \times 4 = 196 + 40^2 - 40^2 + 4^2 = 212$$

$$? = \frac{212}{4} = 53$$

S6. Ans.(b)

Sol.

The pattern is $+17 \times 2, +17 \times 4, +17 \times 6, +17 \times 8, +17 \times 10 \dots$

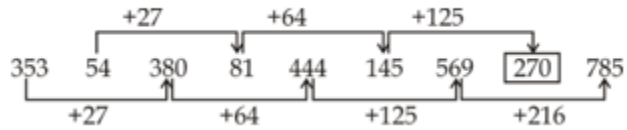
$$\therefore ? = 1470 + 17 \times 10$$

$$= 1640$$

S7. Ans.(c)

Sol.

Series is



S8. Ans.(d)

Sol.

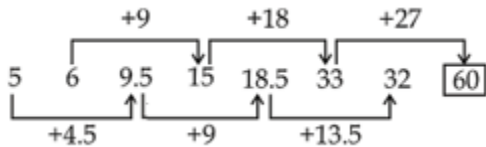
Pattern is $\times 2+2, \times 3+3, \times 4+4, \times 5+5, \times 6+6$

$$\therefore ? = 445 \times 6 + 6$$

$$= 2676$$

S9. Ans.(d)

Sol.



S10. Ans.(b)

Sol.

Pattern is $\times 0.5, \times 1.5, \times 2.5, \times 3.5, \times 4.5$

$$\therefore ? = 78.75 \times 4.5$$

$$= 354.375$$

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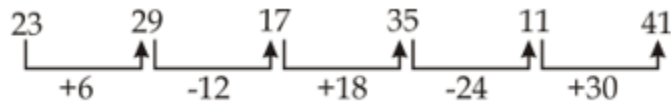
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S11. Ans.(b)

Sol.



S12. Ans.(c)

Sol.

$$6 \times 1.5 + 1 = 10$$

$$10 \times 1.5 + 2 = 17$$

$$17 \times 1.5 + 3 = 28.5$$

$$28.5 \times 1.5 + 4 = 46.75$$

$$46.75 \times 1.5 + 5 = 75.125$$

S13. Ans.(a)

Sol.

$$26^2 - 6 = 670$$

$$30^2 - 6 = 894$$

$$34^2 - 6 = 1150$$

$$38^2 - 6 = 1438$$

$$42^2 - 6 = 1758$$

S14. Ans.(d)

Sol.

$$3 \times 1 + 2 = 5$$

$$5 \times 3 + 4 = 19$$

$$19 \times 5 + 6 = 101$$

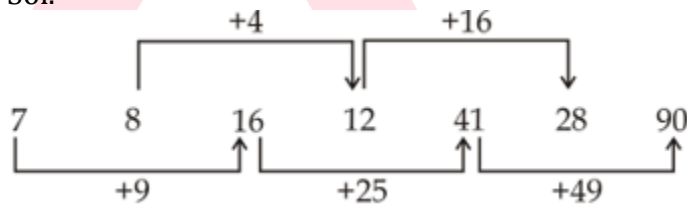
$$101 \times 7 + 8 = \boxed{715}$$

$$715 \times 9 + 10 = 6445$$

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S15. Ans.(a)

Sol.



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