

Directions (1-10): उस गलत पद का चयन कीजिये, जो दी गयी संख्या श्रृंखला में अन्य पदों की तरह समान पैटर्न का अनुसरण नहीं करता है :

Q1. 64,32, 32, 64, 264, 2048

(a)64

(b)32

(c) श्रृंखला सही है

(d)264

(e)2048

Q2. 1337,1333,1324,1314,1250

(a)1337

(b)1333

(c)1314

(d)1324

(e)1250

Q3. 53,59,61,67,69,73

(a)53

(b)69

(c)61

(d)59

(e)73

Q4. 0, 4, 18, 46, 100, 180

(a)0

(b)4

(c)18

(d)46

(e)180

Q5. 80, 120, 240, 580, 1800

- (a)580
- (b)120
- (c)240
- (d)80
- (e)1800

Q6. 2 , 3 , 5 , 7 , 9 , 13 , 17 , 19

- (a)5
- (b)9
- (c)7
- (d)13
- (e)2

Q7. 1 , 7 , 20 , 39 , 69 , 111 , 167

- (a)1
- (b)39
- (c)20
- (d)111
- (e)167

Q8. 10 , 17 , 26 , 35 , 50 , 65 , 82

- (a)10
- (b)50
- (c)82
- (d)17
- (e)35

Q9. 22 , 29 , 45 , 64 , 92 , 127 , 169

- (a)45
- (b)29
- (c)22
- (d)127
- (e)92

Q10. 76 , 78 , 77 , 79 , 74 , 80 , 73

- (a)79
- (b)78
- (c)77
- (d)74
- (e)80

Direction (11-30): दी गयी संख्या श्रृंखला में प्रश्न चिन्ह (?) के स्थान पर क्या मान आएगा ?

Q11. 5 ,5 ,? ,38 ,101 ,225 ,440

- (a) 7
- (b)8
- (c) 9
- (d) 12
- (e) 11

Q12. 0 ,2 ,8 ,22 ,52 ,114 ,?

- (a) 180
- (b) 190
- (c) 240
- (d) 230
- (e) 250

Q13. 7 ,8.25 ,10.75 ,15.75 ,25.75 ,?

- (a) 40.25
- (b) 40.75
- (c) 45.25
- (d) 45.75
- (e) 55.25

Q14. 0 ,1 ,4 ,15 ,64 ,325 ,?

- (a) 1956
- (b) 1875
- (c) 1765
- (d) 1885
- (e) 1900

Q15. 2 ,5 ,11 ,17 ,23 ,?

- (a) 25
- (b) 27
- (c) 29
- (d) 31
- (e) 37

Q16. 17,21,37,73,137, 237,?

- (a)361
- (b)381
- (c)337
- (d)327
- (e)435

Q17. 0,3,1,5,4,7,9,9, 16, ? ,25

- (a)15
- (b)17

(c)14

(d)11

(e)13

Q18. 12, 14, 20, 32, 52, 82, ?

(a)115

(b)106

(c)124

(d)132

(e)123

Q19. 0, 4, 18, 48, 100, ?

(a)170

(b)156

(c)125

(d)196

(e)180

Q20. 256, 384, 960, 3360, ?

(a)15120

(b)9820

(c)12150

(d)10280

(e)8260

Q21. ?, 578, 679, 801, 946, 1116, 1313

(a) 474

(b) 496

(c) 476

(d) 472

(e) 480

Q22. 2 , 3 , 4 , 6 , 8 , 15 , 16 , ?

(a) 48

(b) 56

(c) 64

(d) 42

(e) 50

Q23. 728 , 999 , 1330 , 1727 , 2196 , 2743 , ?

(a) 3542

(b) 3424

(c) 3374

(d) 3142

(e) 3788

Q24. 31 , 35 , 44 , 60 , 85 , 121 , ?

(a) 170

(b) 169

(c) 154

(d) 187

(e) 194

Q25. 1 , 3 , 4 , 7 , 11 , 18 , 29 , ?

(a) 48

(b) 42

(c) 45

(d) 49

(e) 47

Q26. 2, 4, 12, 24, 72, 144, ?

- (a) 410
- (b) 423
- (c) 432
- (d) 256
- (e) 620

Q27. 4, 9, 25, 49, 121, 169, ?

- (a) 310
- (b) 289
- (c) 232
- (d) 256
- (e) 320

Q28. 2, 3, 5, 9, 17, 33, 65, 129, ?

- (a) 210
- (b) 257
- (c) 232
- (d) 256
- (e) 280

Q29. 2, 5, 10, 17, 26, 37, ?

- (a) 60
- (b) 57
- (c) 42
- (d) 50
- (e) 80

Q30. 648, 216, 108, 36, 18, 6, ?

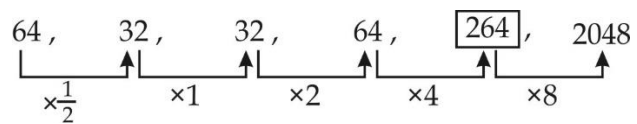
- (a) 6

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

Solutions

S1. Ans.(d)

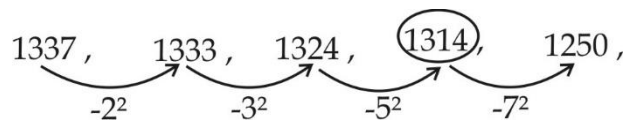
Sol.



$$64 \times 4 = 256$$

S2. Ans.(c)

Sol.



$$1324 - 5^2 = 1324 - 25 = 1299$$

S3. Ans.(b)

Sol.

53, 59, 61, 67, 69, 73

Prime number $\rightarrow 69 = 71$

S4. Ans.(d)

Sol.

0, 4, 18, 46, 100, 180

$$1^3 - 1^2 = 0$$

$$2^3 - 2^2 = 4$$

$$3^3 - 3^2 = 18$$

$$4^3 - 4^2 = 48$$

$$5^3 - 5^2 = 100$$

$$6^3 - 6^2 = 180$$

S5. Ans.(a)

Sol.

80, 120, 240, 580, 1800

$$80 \times 1.5 = 120$$

$$120 \times 2 = 240$$

$$240 \times 2.5 = 600$$

$$600 \times 3 = 1800$$

S6. Ans (b)

Sol. Series is set of prime number

2, 3, 5, 7, 11, 13, 17, 19

So wrong number is 9

S7. Ans (c)

Sol. $1 + 2 \times 3 = 7$

$$7 + 3 \times 4 = 19$$

$$19 + 4 \times 5 = 39$$

$$39 + 5 \times 6 = 69$$

$$69 + 6 \times 7 = 111$$

$$111 + 7 \times 8 = 167$$

So, wrong number is 20

S8. Ans (e)

Sol.

$$3^2 + 1 = 10$$

$$4^2 + 1 = 17$$

$$5^2 + 1 = 26$$

$$6^2 + 1 = 37$$

$$7^2 + 1 = 50$$

$$8^2 + 1 = 65$$

$$9^2 + 1 = 82$$

So, wrong number is 35

S9. Ans (a)

$$\text{Sol. } 22+1 \times 7=29$$

$$29 + 2 \times 7 = 43$$

$$43 + 3 \times 7 = 64$$

$$64 + 4 \times 7 = 92$$

$$92 + 5 \times 7 = 127$$

$$127 + 6 \times 7 = 169$$

So, wrong number is 45.

S10. Ans (c)

$$\text{Sol. } 76+2=78$$

$$78-3=75$$

$$75+4=79$$

$$79-5=74$$

$$74+6=80$$

$$80-7=73$$

So, wrong number is 77

S11. Ans.(d)

Sol.

$$\begin{array}{cccccccc} 5 & & 5 & & ? & & 38 & & 101 & & 225 & & 440 \\ \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} \\ 1^3-1 & 2^3-1 & 3^3-1 & 4^3-1 & 5^3-1 & 6^3-1 & & & & & & & \end{array}$$

$$? = 5 + 2^3 - 1 = 5 + 7 = 12$$

S12. Ans.(c)

Sol.

$$\begin{array}{cccccccc} 0 & & 2 & & 8 & & 22 & & 52 & & 114 & & ? \\ \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} \\ x^2+2 & x^2+4 & x^2+6 & x^2+8 & x^2+10 & x^2+12 & & & & & & & \end{array}$$

$$? = 114 \times 2 + 12$$

$$= 228+12$$

$$= 240$$

S13. Ans.(d)

Sol.

$$\begin{array}{ccccccccc} 7 & & 8.25 & & 10.75 & & 15.75 & & 25.75 & & ? \\ \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} \\ +1.25 & +2.50 & +5 & +10 & +20 & & & & & & \end{array}$$

$$? = 25.75 + 20$$

$$= 45.75$$

S14. Ans.(a)

Sol.

$$\begin{array}{ccccccccc} 0 & & 1 & & 4 & & 15 & & 64 & & 325 & & ? \\ \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} & \underbrace{\hspace{1.5em}} \\ \times 1+1 & \times 2+2 & \times 3+3 & \times 4+4 & \times 5+5 & \times 6+6 & & & & & & & \end{array}$$

$$? = 325 \times 6 + 6$$

$$= 1950 + 6$$

$$= 1956$$

S15. Ans.(d)

Sol.

2, 5, 11, 17, 23, ?

Alternate prime number Series.

2, (3), 5, (7), 11, (13), 17, (19), 23, (29), 31

$$? = 31$$

S16. Ans(b)

Sol.

17, 21, 37, 73, 137, 237, ?

$$17 + 2^2 = 21$$

$$21 + 4^2 = 37$$

$$37 + 6^2 = 73$$

$$73 + 8^2 = 137$$

$$137 + 10^2 = 237$$

$$277 + 12^2 = 381$$

S17. Ans(d)

Sol. 0,3,1,5,4,7,9,9,16,?,25

1st series – 0,1,4,9,16,25

$$0^2, 1^2, 2^2, 3^2, 4^2, 5^2$$

2nd Series – 3,5,7,9,11

$$3+2=5$$

$$5+2=7$$

$$7+2=9$$

$$9+2=11$$

$$\text{So, ?} = 11$$

S18. Ans(c)

Sol.

12, 14, 20, 32, 52, 82, ?

$$12+1 \times 2=14$$

$$14+2 \times 3=20$$

$$20+3 \times 4=32$$

$$32+4 \times 5=52$$

$$52+5 \times 6=82$$

$$82+6 \times 7=124$$

S19. Ans(e)

Sol.

0, 4, 18, 48, 100, ?

$$1^3 - 1^2 = 0$$

$$2^3 - 2^2 = 4$$

$$3^3 - 3^2 = 18$$

$$4^3 - 4^2 = 48$$

$$5^3 - 5^2 = 100$$

$$6^3 - 6^2 = 180$$

S20. Ans (a)

Sol.

256, 384, 960, 3360, ?

$$256 \times \frac{3}{2} = 384$$

$$384 \times \frac{5}{2} = 960$$

$$960 \times \frac{7}{2} = 3360$$

$$3360 \times \frac{9}{2} = 15120$$

So, ? = 15120

S21. Ans(b)

Sol.

$$578 + (10^2 + 1) = 679$$

$$679 + (11^2 + 1) = 801$$

$$801 + (12^2 + 1) = 946$$

$$946 + (13^2 + 1) = 1116$$

$$\text{So, } ? + (9^2 + 1) = 578$$

$$? = 496$$

S22. Ans(d)

Sol.

There are 2 series

2,4,8,16 and 3,6,15,?

$$2+2=4$$

$$4 + 2^2 = 8$$

$$8 + 2^3 = 16$$

And

$$3+3=6$$

$$6 + 3^2 = 15$$

$$15 + 3^3 = 42$$

So, ?=42

S23. Ans (c)

Sol.

$$(9^3 - 1) = 728$$

$$(10^3 - 1) = 999$$

$$(11^3 - 1) = 1330$$

$$(12^3 - 1) = 1727$$

$$(13^3 - 1) = 2196$$

$$(14^3 - 1) = 2743$$

$$(15^3 - 1) = 3374$$

So, ? = 3374

S24. Ans(a)

Sol.

$$31 + 2^2 = 35$$

$$35 + 3^2 = 44$$

$$44 + 4^2 = 60$$

$$60 + 5^2 = 85$$

$$85 + 6^2 = 121$$

$$121 + 7^2 = 170$$

So, ? = 170

S25. Ans (e)

Sol. Series is sum of previous 2 terms

$$1+3=4$$

$$3+4=7$$

$$4+7=11$$

$$7+11=18$$

$$11+18=29$$

$$18+29=47$$

So, ? = 47

S26. Ans. (c)

Sol.

The pattern of the series is $\times 2$, $\times 3$ in alternative terms

so, result will be $144 \times 3 = 432$

S27. Ans. (b)

Sol.

The pattern of the Series be the Square of prime numbers

(2, 3, 5, 7, 11, 13, 17)

4, 9, 25, 49, 121, 169, 289

Required results= 289

S28. Ans. (b)

Sol.

The pattern of the series = +1, +2, +4, +8, +16, +32, +64, +128

So, $129+128=257$

S29. Ans. (d)

Sol.

The pattern of the series is +5, +7, +9, +11, +13.....

S30. Ans. (c)

Sol.

The pattern of the series is $\div 3$, $\div 2$ alternately.