

### aptitude questions for practice

1. Complete the series :

11, 12, 17, 18, 23, 24 ...

- (1) 30
- (2) 35
- (3) 12
- (4) 14
- (5) None of these

**Ans : (5)**

**Explanation :** Alternate numbers increase by 6.

2. Complete the series :

1, 8, 27, 64, 125, 216 .....

- (1) 343
- (2) 512
- (3) 729
- (4) 1000
- (5) None of these

**Ans : (1)**

**Explanation :** The series is

1<sup>3</sup>, 2<sup>3</sup>, 3<sup>3</sup>, 4<sup>3</sup> .....

Hence missing figure : 7<sup>3</sup> = 343

3. Suppose you are in charge of a Military Command guarding a bridge and you receive a message from the bridge that the enemy forces have almost reached the other side of the bridge. What telephone message would you send ?

- (1) Order air-shelling
- (2) Break the bridge
- (3) Send more troops
- (4) Surrender to them
- (5) None of these

**Ans : (2)**

4. Supply the missing figure :

3, 11, 8, 16, 13 .... 18

- (1) 15

- (2) 17
- (3) 14
- (4) 21
- (5) None of these

**Ans : (4)**

**Explanation :** In the series take alternate terms and see, it is increasing by 5.

Thus missing figure is  $16 + 5 = 21$

11, 16, (16 + 5), .....

**5.** Usha is twice as old as Rita. Three years ago she was three times as old as Rita. How old is Usha now ?

- (1) 7 years
- (2) 9 years
- (3) 6 years
- (4) 12 years
- (5) None of these

**Ans : (4)**

**Explanation :** Now  $U = 2R$  (U - Usha's age R - Rita's age)

Three years ago,

$$(U - 3) = 3(R - 3)$$

$$\therefore (2R - 3) = 3(R - 3) \quad (\because U = 2R)$$

$$\Rightarrow R = 6$$

$$\Rightarrow U = 2(6) = 12 \text{ years.}$$

**6.** If  $R^2 = S^3 = K$ , where R, S and K are integers. Find the smallest positive integral value of K. (Greater than 1)

- (1) 4
- (2) 8
- (3) 27
- (4) 64
- (5) None of these

**Ans : (4)**

**7.** A man had returned after a day's bird-shooting. He was asked how many birds he had in the bag. He said "they are all sparrows but six; all pigeons but six and all doves but six", How many birds had he in all ?

- (1) 18
- (2) 9
- (3) 27
- (4) 64
- (5) None of these

**Ans : (2)**

**Explanation :** Let the no. of birds be  $x$

$$\therefore (x - 6) + (x - 6) + (x - 6) = x$$

$$\therefore 3x - 18 = x$$

$$\Rightarrow 2x = 18 \Rightarrow x = 9.$$

**8.** I am sixth in the queue from either end. How many people are there in the queue ?

- (1) 13
- (2) 12
- (3) 11
- (4) 10
- (5) None of these

**Ans : (3)**

**9.** Complete the series :

81, 69, 58, 48, 39 .....

- (1) 7
- (2) 10
- (3) 22
- (4) 31
- (5) None of these

**Ans : (4)**

**Explanation :** Here, the series goes like this

$$81 - 12 = 69 - 11 = 58 - 10 = 48 - 9 = 39 - 8 = 31.$$

**10.** If HKUJ means FISH, what does UVCD mean ?

- (1) STAR
- (2) STAK
- (3) STAL
- (4) STAB

(5) None of these

**Ans : (4)**

**Explanation :** HKUJ means FISH

The word FISH is obtained from the word HKUJ by replacing every alphabet by the second alphabet to the left of each alphabet of the word HKUJ. Applying same rule to UVCD we can see that. UVCD means STAB

**11.** Complete the series :

1, 2, 3, 5, 8, 13 ....

(1) 34

(2) 1

(3) 30

(4) 35

(5) None of these

**Ans : (2)**

**Explanation :** In this series, the term is obtained by adding previous two terms.

**12.** If Gopal runs slower than Krishna and Krishna runs as fast but not faster than Hargobind, then does Hargobind run faster or slower than Gopal ?

(1) Slower

(2) Equal

(3) Same

(4) Faster

(5) None of the

**Ans : (4)**

**13.** Supply the missing figure :

2, 6, 12, 20, 30 ... 56

(1) 42

(2) 38

(3) 46

(4) 56

(5) None of these

**Ans : (1)**

**Explanation :** The series is  $12 + 1, 22 + 2, 32 + 3, 42 + 4, 52 + 5, 62 + 6 \dots$

Hence missing figure :  $62 + 6 = 42$

**14.** Supply the missing figure :

1, 4, 9, 16, 25 .... 49

(1) 27

(2) 36

(3) 64

(4) 81

(5) None of these

**Ans : (2)**

**Explanation :** The series is 12, 22, 32, 42, 52, 62, 72 .....

∴ Missing figure = 62 = 36

**15.** A Shepherd had 17 sheep. All but nine died. How many did he have left ?

(1) 9

(2) 8

(3) 12

(4) 7

(5) None of these

**Ans : (1)**

**16.** Write the next number in the series : 14, 16, 13, 17, 12, 18, 11 ....

(1) 12

(2) 19

(3) 22

(4) 14

(5) None of these

**Ans : (2)**

**Explanation :** Sree the alternate terms starting from 2nd term in the series 16, 17, 18, 19, .....

**17.** The Twenty-First Century will start on January 1 in the year

(1) 2001

(2) 2000

(3) 2101

(4) 2100

(5) None of these

**Ans : (1)**

**18.** If  $A = 1$ ,  $B = 3$ ,  $C = 5$  and so on, what do the numbers 3, 9, 7 stand for ?

(a) BID

(b) BAD

(c) BED

(d) CAR

(5) None of these

**Ans : (3)**

**Explanation :**  $A \rightarrow 1\text{st position} \rightarrow 1$

$B \rightarrow 2\text{nd position} \rightarrow 2 + 1 = 3$

$C \rightarrow 3\text{rd position} \rightarrow 3 + 2 = 5$

$D \rightarrow 4\text{th position} \rightarrow 4 + 3 = 7$

$E \rightarrow 5\text{th position} \rightarrow 5 + 4 = 9$

Hence, 3, 9, 7 stands for B, E, D.

**19.** Which choice provides the answer : If  $2 + 3 = 10$ ,  $6 + 5 = 66$ ,  $7 + 2 = 63$ ,  $9 + 7 = 144$  then,  $8 + 4 = ?$

(a) 48

(b) 144

(c) 96

(d) 55

(5) None of these

**Ans : (3)**

**Explanation :** By the rule  $2 + 3 = 10$

$6 + 5 = 66$

$7 + 2 = 63$

We see that two numbers are added first and then multiplied by first number. For, example see  $7 + 2 = 9$  then  $9 * 7 = 63$

$\therefore$  Here  $8 + 4 = 12$

then  $8 * 12 = 96$ .

**20.** Which choice provides the answer in the following : If  $2 * 3 = 36$ ,  $5 * 4 = 400$ ,  $6 * 2 = 144$ ,  $3 * 3 = 81$ ; then,  $5 * 5 = ?$

(1) 255

(2) 625

(3) 10

(4) 25

(5) None of these

**Ans : (2)**

**Explanation :** As  $2 * 3 = 6$  But here the rule framed as

$$2 * 3 \rightarrow 62 \rightarrow 36$$

$$5 * 4 \rightarrow 202 \rightarrow 400$$

$$3 * 3 \rightarrow 92 \rightarrow 81$$

$$\therefore 5 * 5 \rightarrow (25)2 \rightarrow 625$$