

## **OBJECTIVE TYPE QUESTIONS**

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Mark the correct alternative in each of the following:

## 1. Which of the following statement is true?

$$(a) - 7 > -5$$

(b) 
$$-7 < -5$$

(c) 
$$(-7) + (-5) > 0$$

(d) 
$$(-7) - (-5) > 0$$

**Solution:** 

The option (b) is correct answer.

In option (a)

We know that -7 is to the left of -5

Hence, -7 < -5.

In option (c)

We know that (-7) + (-5) = -(7+5) = -12.

So -12 is to the left of 0

Hence (-7) + (-5) < 0.

In option (d)

$$(-7)$$
 -  $(-5)$  =  $(-7)$  + (additive inverse of  $-5$ ) =  $(-7)$  +  $(5)$  =  $-(7-5)$  =  $-2$ 

We know that -2 is to the left of 0, so (-7) - (-5) < 0.

#### 2. 5 less than -2 is

$$(b) - 3$$

$$(c) - 7$$

**Solution:** 

The option (c) is correct answer.

We know that, 5 less than -2 = (-2) - (5) = -2 - 5 = -7

#### 3. 6 more than -7 is

$$(b) - 1$$

$$(d) - 13$$

**Solution:** 

The option (b) is correct answer.

We know that, 6 more than -7 = (-7) + 6 = -(7 - 6) = -1

#### 4. If x is a positive integer, then

(a) 
$$x + /x/ = 0$$

(b) 
$$x - |x| = 0$$

(c) 
$$x + /x/ = -2x$$

(d) 
$$x = -|x|$$

**Solution:** 

The option (b) is correct answer.

We know that if x is positive integer, then |x| = x

Hence, x + |x| = x + x = 2x and x - |x| = x - x = 0

#### 5. If x is a negative integer, then

(a) 
$$x + /x/ = 0$$

(b) 
$$x - |x| = 0$$

(c) 
$$x + /x/ = 2x$$

(d) 
$$x - |x| = -2x$$

Solution:

The option (a) is correct answer.

We know that x is negative integer, then |x| = -x

It can be written as

$$|x + |x| = x - x = 0$$
 and  $|x - |x| = x - (-x) = x + x = 2x$ 

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6. If x is greater than 2, then |2 - x| =

(a) 
$$2 - x$$

(b) 
$$x - 2$$

(c) 
$$2 + x$$

$$(d) - x - 2$$

**Solution:** 

The option (b) is correct answer.

We know that if a is negative integer, then |a| = -a

It is given that x is greater than 2 where 2 - x is negative

Hence, |2 - x| = -(2 - x) = -2 + x = x - 2.

7. 9 + |-4| is equal to

$$(b) - 5$$

$$(d) -13$$

**Solution:** 

The option (c) is correct answer.

We know that, |-4| = 4

Hence 9 + |-4| = 9 + 4 = 13

8. (-35) + (-32) is equal to

(a) 67

$$(b) - 67$$

$$(c)-3$$

**Solution:** 

The option (b) is correct answer.

It can be written as (-35) + (-32) = -(35 + 32) = -67

9. (-29) + 5 is equal to

(a) 24

$$(c) - 34$$

$$(d) - 24$$

**Solution:** 

The option (d) is correct answer.

It can be written as (-29) + 5 = -(29 - 5) = -24

10. |-|-7|-3| is equal to

(a) - 7

$$(d) - 10$$

**Solution:** 

The option (c) is correct answer.

It can be written as |-|-7|-3| = |-7-3| = |-10| = 10

11. The successor of -22 is

(a) - 23

$$(b) - 21$$

**Solution:** 

The option (b) is correct answer.

We know that if 'a' is an integer a + 1 is its successor.

So the successor of -22 = -22 + 1 = -(22 - 1) = -21

12. The predecessor of – 14 is

(a) - 15

(b) 15

(c) 13

(d) - 13

**Solution:** 



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The option (a) is correct answer.

The predecessor of -14 is -15.

## 13. If the sum of two integers is -26 and one of them is 14, then the other integer is

(a) - 12

(b) 12

(c) - 40

(d) 40

**Solution:** 

The option (c) is correct answer.

It is given that the sum of two integers = -26

One of them = 14

So the other integer = -26 - 14 = -(26 + 14) = -40

## 14. Which of the following pairs of integers have 5 as a difference?

(a) 10, 5

(b) - 10, -5

(c) 15, -20

(d) both (a) and (b)

**Solution:** 

The option (d) is correct answer.

Consider option (a) 10 - 5 = 5

Consider option (b) (-5) - (-10) = -5 + 10 = 5

Consider option (c) 15 - (-20) = 15 + 20 = 35

## 15. If the product of two integers is 72 and one of them is -9, then the other integers is

(a) - 8

(b) 8

(c) 81

(d) 63

**Solution:** 

The option (a) is correct answer.

It is given that the product of two integers = 72

One of them = -9

Hence, the other integers =  $72 \div (-9) = -8$ 

### 16. On subtracting -7 from -14, we get

(a) - 12

(b) - 7

(c) -14

(d) 21

**Solution:** 

The option (b) is correct answer.

It can be written as

Required number = -14 - (-7) = -14 + 7 = -(14 - 7) = -7

## 17. The largest number that divides 64 and 72 and leave the remainders 12 and 7 respectively, is

(a) 17

(b) 13

(c) 14

(d) 18

**Solution:** 

The option (b) is correct answer.

By subtracting 12 and 7 from 64 and 72

We get

64 - 12 = 52 and 72 - 7 = 65

So the required number is the HCF of 52 and 65.

It can be written as

 $52 = 4 \times 13$  and  $65 = 5 \times 13$ 

HCF of 52 and 65 = 13

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Hence, the largest number that divides 64 and 72 and leave the remainders 12 and 7 respectively, is 13.

## 18. The sum of two integers is -23. If one of them is 18, then the other is

(a) -14

$$(d) -41$$

**Solution:** 

The option (d) is correct answer.

It is given that the sum of two integers = -23

One of them = 18

So the other number = (-23) - (18) = -23 - 18 = -(23 + 18) = -41

Hence, the other number is -41.

## 19. The sum of two integers is -35. If one of them is 40, then the other is

(a) 5

$$(b) - 75$$

$$(d) - 5$$

**Solution:** 

The option (b) is correct answer.

It is given that the sum of two integers = -35

One of them = 40

So the other number = (-35) - (40) = -35 - 40 = -(35 + 40) = -75

Hence, the other number is -75.

### 20. On subtracting – 5 from 0, we get

(a) - 5

**Solution:** 

The option (b) is correct answer.

We know that, 0 - (-5) = 0 + 5 = 5

Hence by subtracting -5 from 0, we obtain 5.

21. 
$$(-16) + 14 - (-13)$$
 is equal to

(a) - 11

$$(d) - 15$$

**Solution:** 

The option (c) is correct answer.

It can be written as (-16) + 14 - (-13) = (-16) + 14 + 13 = (-16) + 27 = 27 - 16 = 11

### 22. $(-2) \times (-3) \times 6 \times (-1)$ is equal to

(a) 36

$$(b) - 36$$

$$(d) - 6$$

**Solution:** 

The option (b) is correct answer.

It can be written as  $(-2) \times (-3) \times 6 \times (-1) = (2 \times 3) \times 6 \times (-1) = 6 \times 6 \times (-1) = 36 \times (-1)$ 

So we get  $(-2) \times (-3) \times 6 \times (-1) = -(36 \times 1) = -36$ 

23. 
$$86 + (-28) + 12 + (-34)$$
 is equal to

(a) 36

$$(b) - 36$$

$$(d) - 6$$

**Solution:** 

The option (a) is correct answer.



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It can be written as 86 + (-28) + 12 + (-34) = 86 + (-28) - (34 - 12) = 86 + (-28) - 22On further calculation

$$86 + (-28) + 12 + (-34) = (86 - 28) - (34 - 12) = (86 - 28) - 22 = 58 - 22 = 36$$

24.  $(-12) \times (-9) - 6 \times (-8)$  is equal to

(a) 156

(b) 60

(c) -156

(d) - 60

**Solution:** 

The option (a) is correct answer.

It can be written as  $(-12) \times (-9) - 6 \times (-8) = (12 \times 9) - 6 \times (-8) = 108 - 6 \times (-8)$ 

On further calculation

$$(-12) \times (-9) - 6 \times (-8) = 108 + 6 \times 8 = 108 + 48 = 156$$