

**KENDRIYA VIDYALAYA SITAPUR Shift I**  
**HALF YEARLY EXAMINATION (2022-23)**  
**SUBJECT: MATHEMATICS**  
**CLASS: VI**

**MAX. MARKS:40**

**DURATION: 2 HRS**

All questions are compulsory. Write the correct question number in your answer sheet.

**Section A**

**Question NO. 1 to 3 are M.C.Q. Choose the correct option.**

1. Which direction will you face if you start facing east and make  $\frac{1}{2}$  of a revolution , clockwise

- (a) north                      (b) south                      ( c) east                      ( d) west

2. An integer which is 2 steps towards left to - 5 on number line is

- (a) 5                      (b) – 7                      (c) 7                      (d) -5

3. Read the content carefully then choose the correct options for asked questions

**Prime number**The numbers other than 1 whose only factors are 1 and the number itself are called prime number.

**Co-prime numbers**\_Any set of numbers which do not have any other common factor other than 1 are called co-prime or relatively prime numbers.

**Twin primes**Twin primes are a pair of primes which differ by 2.

i. Which is a composite number

- ( a) 103                      (b) 107                      (c) 109                      (d) 111

ii Number of Prime numbers up to 20 is

- ( a) 8                      (b) 7                      (c) 9                      (d) 6

iii. H.C.F. of 169 and 12 is

- (a) 2                      (b) 13                      (c) 1                      (d) 3

iv. Choose the twin primes

- ( a) 2 and 5                      (b) 5 and 11                      (c) 17 and 19                      (d) 7 and 13

v. L.C.M. of two co-prime numbers is always their

- ( a) product                      (b) sum                      (c) difference                      (d) quotient

4. Write the Roman numeral for 90.

5. Write the Predecessor of 100000900.

6. Write the factors of 48.

7. How many lines can pass through one given point?

8. Write  $\frac{15}{7}$  as mixed Fraction.

### Section B

Question NO. 9 to 16 are M.C.Q., Each question carries 1 mark.

9. Estimation of  $730 + 39$

- (a) 760 (b) 765 (c) 770 (d) 755

10. How many thousands make a million?

- (a) 10 (b) 100 (c) 1000 (d) 10000

11..The smallest natural number is

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

12.. 44 as the sum of two odd primes is

- (a) 36 and 8 (b) 24 and 20 (c) 31 and 13 (d) 42 and 2

13.. Minimum number of sides required for a polygon is

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

14.. Number of right angles turned through by the hour hand of a clock when it goes from 5 to 11

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

15..  $-1 + 7$  is

- (a) 8 (b) -8 (c) 6 (d) -6

16.. What Fraction of a day is 6 hours?

- (a)  $\frac{1}{4}$  (b)  $\frac{1}{3}$  (c)  $\frac{1}{2}$  (d)  $\frac{1}{5}$

### Section C

17. Write the number name of 100023006 in Indian and International system of Numeration (2)

18. Find the value using suitable property

$$297 \times 17 + 297 \times 3 \quad (3)$$

19. Find the L.C.M. of 18 and 72 (2)

20. Illustrate, if possible, each one of the following with a rough diagram

- (a) A closed curve that is not a polygon  
(b) An open curve made up entirely of line segments.  
(c) A polygon with two sides (3)

21. Give reasons for the following

- (a) A square can be thought of as a special rectangle.  
(b) A rectangle can be thought of as a special parallelogram (2)

22. Simplify

$$(37) + (-2) + (-65) + (-18) \quad (3)$$

23.(a) Ila read 25 pages of a book containing 100 pages. Lalita read  $\frac{2}{5}$  of the same book. Who read less? (2)

(b) Solve  $4\frac{2}{3} + 3\frac{1}{4}$

(3)