

HALF YEARLY EXAMINATION, 2024-25

MATHEMATICS

Time – 3:00 Hrs.

Class – VI

M.M. : 80

Date – 11.09.2024 (Wednesday)

Name of the student _____ Section _____

GENERAL INSTRUCTIONS:

- ✓ This question paper is divided into four section A,B, C and D.
- ✓ Section A consists of 20 questions (MCQs and fill in the blanks) of 1 mark each.
- ✓ Section B consists of 5 questions of 2 marks each. Attempt all the questions.
- ✓ Section C consists of 7 questions of 4 marks each. Attempt any 5 questions.
- ✓ Section D consists of 8 questions of 5 marks each. Attempt any 6 questions.
- ✓ Show the calculations and draw the diagrams wherever required.

SECTION-A

Q1. Choose the correct option:

(10x1=10)

- i) When one is added to the greatest four digit number what is the result?
(a) Greatest 5 digit number (b) Smallest 5 digit number
(c) Greatest 4 digit number (d) Smallest 4 digit number
- ii) The sum of a natural number with a whole number is always:
(a) 0 (b) 100 (c) even number (d) a natural number
- iii) What is the fifth multiple of 13 ?
(a) 65 (b) 55 (c) 45 (d) 52
- iv) The numbers having only two factors are called-
(a) Even (b) Odd (c) Prime (d) Composite
- v) The corresponding numeral for
 $5 \times 100000 + 8 \times 10000 + 1 \times 1000 + 6 \times 100 + 2 \times 10 + 3 \times 1$ is
(a) 581623 (b) 5081623 (c) 5810623 (d) 5816023
- vi) The Greatest negative integers is -
(a) -1 (b) -10 (c) -100 (d) - 1000
- vii) Geometrical figure which has no dimension is
a) line (b) plane (c) line segment (d) point.
- viii) Which of the following is in increasing order -
(a) 0 , 1 , -1 (b) - 1 , -2 , -3 (c) -1 , 0 , 1 (d) -1 , 1 , -2
- ix) What is the H.C.F. two consecutive even numbers -
(a) 1 (b) 2 (c) 3 (d) 4
- x) Two lines meeting at a point are called_____.
(a) parallel lines (b) intersecting lines (c) concurrent lines (d) intercept

Q2. Fill in the blanks:**(5x1=5)**

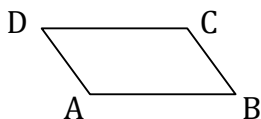
- i) _____ metres make a 1 Kilometre.
- ii) The natural numbers along with zero form the collection of _____.
- iii) A number for which sum of all its factors is equal to twice the number is called _____.
- iv) On the number line, -15 is to the _____ of zero.
- v) The lines which do not intersect and have equal distance between them are called _____

Q3. Short answer questions.**(5x1=5)**

- i) Arrange the following numbers in ascending order : 847, 9754, 8320, 574
- ii) Write in digits "Nine Crore five lakh forty one".
- iii) Write four negative integers greater than - 5.
- iv) What is open curve?
- v) What is the sum of two negative integers ?

SECTION - B**Attempt all the questions.****(2x5=10)**

- Q4. Insert commas suitably and write the names according to International System of Numeration:
(a) 78921092 (b) 7452283
- Q5. Find $2 + 5$ using number line.
- Q6. The numbers 13 and 31 are prime numbers. Both these numbers have same digits 1 and 3. Find two such pairs of prime numbers up to 100.
- Q7. Write all the integers between the -8 and -15. Also write them in the increasing order.
- Q8. Name the angles in the given figure.

**SECTION - C****Attempt ANY 5 questions.****(5x4=20)**

- Q9. Population of Snehnagar was 4,35,471 in the year 2002. In the year 2003 it was found to be increased by 82,958. What was the population of the city in 2003?
- Q10. (a) How many whole numbers are there between 32 and 53?
(b) Write the predecessor and successor of : 12000; 49
- Q11. Illustrate each one of the following with a diagram:
(a) A closed curve that is not a polygon.
(b) A four sided polygon with all equal sides.
(c) A polygon with five sides.
(d) A closed curve using 2-line segment
- Q12. Find the Highest Common Factor of 15, 45 and 75.

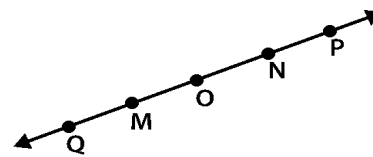
- Q13. Use number line and solve $(-2) + 8 + (-4)$.
- Q14. Write all the numbers less than 100 which are common multiples of 3 and 4.
- Q15. For the following statements, write True (T) or False (F). If the statement is false, correct the statement.
- (a) -8 is to the right of -10 on a number line.
- (b) -100 is to the right of -50 on a number line.
- (c) Smallest negative integer is -1 .
- (d) -26 is greater than -25 .

SECTION - D

Attempt **ANY 6** questions.

(6x5=30)

- Q16. The number of sheets of paper available for making notebooks is 75,000. Each sheet makes 8 pages of a notebook. Each notebook contains 200 pages. How many notebooks can be made from the paper available?
- Q17. A merchant had Rs. 78,592 with her. She placed an order for purchasing 40 radio sets at Rs. 1200 each. How much money will remain with her after the purchase?
- Q18. Find the sum of the greatest and the least 5-digit number formed by using the digits 9,5,0,2,1 each only once.
- Q19. Find the least number which when divided by 16, 24 and 36 leaves a remainder 7 in each case.
- Q20. Two tankers contain 850 litres and 680 litres of kerosene oil respectively. Find the maximum capacity of a container which can measure the kerosene oil of both the tankers when used an exact number of times.
- Q21. Consider the following figure of line \overleftrightarrow{MN} . Say whether following statements are true or false in context of the given figure.



- (a) Q, M, O, N, P are points on the line \overleftrightarrow{MN} .
- (b) M, O, N are points on a line segment \overline{MN} .
- (c) M and N are end points of line segment \overline{MN} .
- (d) O and N are end points of line segment \overline{OP} .
- (e) M is one of the end points of line segment \overline{QP} .
- Q22. Draw a figure and label suitably in each of the following cases:
- (a) Point P lies on \overline{AB} .
- (b) \overleftrightarrow{XY} and \overleftrightarrow{PQ} intersect at M.
- (c) Line l contains E and F but not D.
- (d) \overleftrightarrow{OR} and \overleftrightarrow{OS} meet at O.
- Q23. Fill in the blanks with $>$, $<$ or $=$ sign. Show the required steps.

(a) $(-4) + (-8)$ _____ $(-4) - (-8)$

(b) $(-31) - (-20)$ _____ $(-41) + (-10)$

