# BUDHA DAL PUBLIC SCHOOL PATIALA
## FIRST TERM EXAMINATION (12 September 2023)
## MATHEMATICS
### Class – VI
### (Set – A)

Time Allowed: 3 hours

Maximum Marks: 80

**Instructions:**
1. All questions are compulsory.
2. Section – A : Q.No. 1 to 6 carry 1 mark each
3. Section – B : Q.No. 7 to 12 carry 2 marks each
4. Section – C : Q.No. 13 to 22 carry 3 marks each
5. Section – D : Q.No. 23 to 30 carry 4 marks each

### SECTION-A

1. _____ order means arrangement from greatest to smallest.　　1

2. Counting numbers are called _____ .　　1

3. Write the smallest prime number which is even.　　1

4. Draw any open curve.　　1

5. Which is the smallest positive integer.　　1

6. In tally marks, ₦₦ ₦₦ II stands for ?　　1

### SECTION-B

7. a) Write the greatest 4 digit number using 2, 8, 7, 4 without repetition.　　2
   b) In International system of numeration commas are used after every _____ from right.

8. In each of the following pair of numbers, state which whole number is lie left on the number line.　　2
   a) 930, 903　　b) 28743, 29468

9. Find the factors of　　2
   a) 68　　b) 73

10. How many lines can be pass through　　2
   a) One given point
   b) Two given points

11. a) Write four negative integers less than – 25　　2
    b) If we are on – 3 on number line, which direction should we move to reach at 6 ?

12. Hitesh threw a dice 20 times and noted the number appearing each time as shown below　　2

| 6 | 2 | 6 | 4 | 5 | 3 | 1 | 4 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|---|
| 2 | 2 | 3 | 1 | 2 | 4 | 3 | 1 | 2 | 5 |

Make a table and enter the data using tally marks

A-1

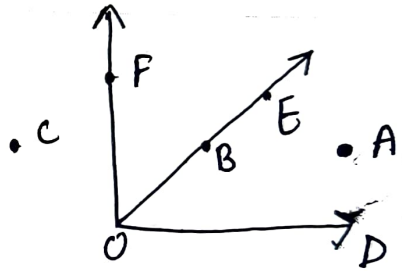## SECTION-C

13. The town newspaper is published every day, one copy has 12 pages. Everyday 11,980 copies are printed. How many total pages are printed everyday?    3

14. a) $10 \times 3$ km = _____ metre.    3

    b) Put commas suitably write in Indian system of numeration 765874352

15. a) How many whole numbers are there between 62 and 73 ?    3

    b) Write three whole numbers occuring just before 20000

16. a) Write seven consecutive composite number less than 100 so that there is no prime number    3
    between them.

    b) Find common factors of 5, 15 and 35

17. Write the greatest 4 digit number and show its prime factorisation    3

18. In the given diagram, name the points    3

    a) in the interior of $\angle DOE$

    b) in the exterior of $\angle EOF$

    c) on $\angle EOF$

19. Illustrate, if possible, each one of the following with a rough diagram    3

    a) A closed curve that is not a polygon

    b) An open curve made up entirely of line segments

    c) A polygon with three sides.

20. Fill in the blanks    3

    a) 6 lakh = _____ thousand

    b) 1 centimeter = _____ millimetres

    c) Greatest single digit number + 1 = _____

21. Using number line, write the integer    3

    a) 2 more than – 5

    b) 6 less than – 4

A-2

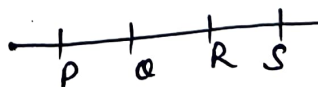**22.** The scale of electric bulbs on different days of week is shown below

| Days | Number of bulbs | Δ = 4 bulbs |
|---|---|---|
| Monday | Δ Δ Δ Δ | |
| Tuesday | Δ Δ Δ | |
| Wednesday | Δ Δ | |
| Thursday | Δ Δ Δ Δ Δ Δ | |
| Friday | Δ | |
| Saturday | Δ Δ | |
| Sunday | Δ Δ Δ Δ Δ | |

Observe the pictograph and answer the questions"

    a) On which of days minimum no. of bulbs sold?

    b) On which day maximum no. of bulbs sold?

    c) How many bulbs were sold on Monday?

    d) On which day same number of bulbs sold?

## SECTION-D

**23.** Orange syrup is packed in boxes each weighing 2kg 500g. How many such boxes can be loaded in a van which cannot carry beyond 500kg?    4

**24.** Write True or False    4

    a) All natural numbers are also whole numbers

    b) 1 is smallest whole number

    c) 4999 is the successor of 5000

    d) There is no largest whole number

**25.** Find the least number which when divided by 12, 16, 24 and 36 leaves remainder 7 in each case.    4

**26.** a) Name the line given in all possible ways choosing only two letters at a time    4



    b) Draw rough diagram of two angles such that they have

i) one point in common

ii) two points in common

**27.** Find    4

    a) $(-25) - (-18)$          b) $(-17) + (-8) + (-90)$

    c) $-50 + 14$             d) $-250 - (-100) + 350 - 400$

A-3

28.     Fill in the blanks                                                                          4

a) A _____ is collection of numbers gathered to give some information.

b) A _____ represents data through picture of objects.

c) The number 7 can be represented using tally marks _____.

d) In a pictograph ✿ = 10 flowers in a basket then ✿ ✿ ✿ ✿ = _____ flowers.

29.     Following is list of temperature of five places in India on a particular day of the year.        4

| Place | Temperature |
|-------|-------------|
| Siachin | $10^0C$ below $0^0C$ |
| Shimla | $2^0C$ below $0^0C$ |
| Ahmedabad | $30^0C$ above $0^0C$ |
| Delhi | $20^0C$ above $0^0C$ |
| Srinagar | $5^0C$ below $0^0C$ |

On the basis of given information, answer the following questions by choosing the correct option from the given four options in each question:

1) Which is the coolest place?
   a) Srinagar      b) Siachin      c) Delhi

2) Name the place above $20^0C$
   a) Ahmedabad      b) Siachin      c) Srinagar

3) What is the temperature of Ahmedabad
   a) $+20^0C$       b) $30^0C$       c) $-30^0 C$

4) What is the temperature of Shimla?
   a) $-2^0 C$       b) $2^0 C$      c) $0^0 C$    d) $4^0 C$

30.     One day teacher will conduct role play on topic playing with number. Teacher will assign   4
different roles to the different students like prime, composite, even twin prime and odd
number. On the basis of role play teacher will ask questions:

1) Numbers which have more than two factors are called _____
   a) Prime numbers     b) Co-prime numbers     c) Composite numbers

2) 73 is which number ?
   a) Even number          b) Odd number

3) Two prime numbers whose difference is 2 are called _____
   a) Co-prime numbers     b) Twin prime numbers     c) Prime numbers

4) The Number 19 is _____
   a) Prime number      b) Composite number    c) Non-prime number

A-4

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5. Section – D : Q.No. 23 to 30 carry 4 marks each

### SECTION-A

1. Ascending order means arrangement from the smallest to the _____.   1

2. The smallest natural number is _____.   1

3. Draw any closed curve.   1

4. Write the smallest composite number.   1

5. Which is the largest whole number.   1

6. In tally marks, ~~IIII~~ III stands for ?   1

### SECTION-B

7. a) Write the samllest 4 digit number using 1, 9, 2, 4 without repetition.   2

   b) Greatest 2 – digit number + 1 = _____

8. In each of the following pair of numbers, state which number will lie right on the number line.   2

   a) 830, 803    b) 28717, 27426

9. Find the factors of   2

   a) 67    b) 36

10. Consider the figure and answer:   2

    a) Is it a polygon?
    b) Is it closed?

11. a) Write four negative integers more than – 11   2

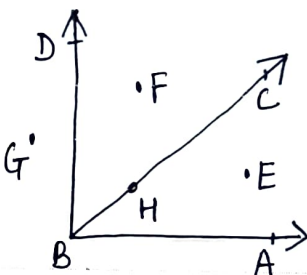    b) If we are on +4 on number line, which direction should we move to reach at – 2 ?

12. In a Hindi test, following marks were obtained by 20 students:   2

    | 8 | 5 | 8 | 7 | 9 | 8 | 9 | 6 | 7 | 5 |
    |---|---|---|---|---|---|---|---|---|---|
    | 8 | 6 | 4 | 8 | 7 | 7 | 9 | 4 | 9 | 7 |

    Make a table and enter the data using tally marks

B-1

## SECTION-C

13. A factory, on an average, produces 6,423 bulbs a day. How many bulbs does the factory produce in the month of March?    3

14. a) Put commas suitably, write in international system of numeration. 88383678    3
    b) $2 \times 4cm =$ _____ mm.

15. a) How many natural numbers are there between 51 and 62.    3
    b) Write three numbers occurring just before 1000.

16. a) Write three pair of prime numbers such that numbers obtained by reversing the digits are also prime.    3
    b) find the common factors of 4, 8 and 12

17. Write the smallest 5 – digit number and show its prime factorization.    3

18. In the given diagram, name the points    3
    a) in the interior of $\angle ABC$
    b) in the exterior of $\angle CBD$
    c) on $\angle CBD$

19. Illustrate, if possible, each one of the following with a rough diagram    3
    a) A closed curve that is a polygon
    b) An open curve made up entirely of line segments
    c) A polygon with two sides.

20. Fill in the blanks    3
    a) 1 kg = _____ gm.
    b) 1 million = _____ lakh.
    c) 1043 km = _____ m.

21. Using number line, write the integer    3
    a) 3 less than – 2
    b) 5 more than – 4

B-2

22.    Following is the pictograph of number of watches manufactured

| Days | Number of watches | Δ = 100 |
|---|---|---|
| Monday | Δ Δ Δ Δ | |
| Tuesday | Δ Δ Δ | |
| Wednesday | Δ Δ | |
| Thursday | Δ Δ Δ Δ Δ Δ | |
| Friday | Δ | |
| Saturday | Δ Δ | |
| Sunday | Δ Δ Δ Δ | |

Observe the pictograph and answer the questions"

a)  On which day were minimum watches manufactured?

b)  On which day were maximum watches manufactured?

c)  How many watches were manufactured on Tuesday?

d)  On which days were same number of watches manufactured?

## SECTION-D

23.    Medicine is packed in boxes, each weighting 4 kg 500 g. How many such boxes can be loaded    4
in a van which cannot carry beyond 800 kg.

24.    Write True or False    4

a)  All whole numbers are natural numbers.
b)  1 is the smallest natural number
c)  There is no largest natural number
d)  699 is the successor of 700

25.    a) Name the line given in all possible ways choosing only two letters at a time    4



b) Draw rough diagram of two angles such that they have

i) one point in common

ii) one ray in common

26.    Determine the greatest 3 digit number exactly divisible by 8, 10 and 12    4

27.    Fill in the blanks    4

a)  Data can be arranged in a tabular form using _____ marks

b) Using tally marks, represent number 9 _____

c)  In pictograph, symbol ★ represents 5 stars, then ★★★ represents _____ stars.

d) A _____ is a collection of numbers gathered to give some information.

B-3

**28.** Find

    a) $-50 + (-200) + 300$        b) $(-13) + (-18)$      4

    c) $(-7) + (-9) + 4 + 16$      d) $11 + (-7)$

**29.** Following is list of score of five students in a quiz out of 50 students score      4

| Students | Score |
|---|---|
| Aryan | 20 more than 0 |
| Arjun | 30 more than 0 |
| Zoya | 20 less than 0 |
| Soya | 10 less than 0 |
| Arnav | 50 more than 0 |

On the basis of given information, answer the following questions by choosing the correct option from the given four options in each question:

1) Who got highest score?
    a) Aryan     b) Arnav     c) Arjun

2) Name the students who got less than 10 score
    a) Arnav and Zoya     b) Zoya and Soya     c) Soya and Arjun

3) Write the score of five students in ascending order

4) Who got lowest score?
    a) Arjun     b) Zoya     c) Arnav

**30.** A role play was conducted in class 6 and different roles were assigned to different students.      4

Based on these roles, answer the following questions:

1) Numbers which have only two factors are called _____
    a) Prime numbers     b) Co-prime numbers     c) Composite numbers

2) 78 is _____ number
    a) Odd number     b) Even number

3) Two prime numbers whose difference is 2 are called _____
    a) Co-prime numbers     b) Twin prime numbers     c) Prime numbers

4) Number 51 is _____
    a) Composite number     b) Prime number     c) Co-prime number