BUDHA DAL PUBLIC SCHOOL PATIALA
FIRST TERM EXAMINATION (19 September 2024)
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 10 in the form of MCQ carry 1 mark each
3. Section – B : Q.No. 11 to 20 carry 2 marks each
4. Section – C : Q.No. 21 to 30 carry 3 marks each
5. Section – D : Q.No. 31 to 35 carry 4 marks each

SECTION-A

1. The smallest 8 digit number is called   1

   a) one crore   b) one lakh   c) ten crore   d) ten lakh

2. The whole number occurring just before 27865 is   1

   a) 27863   b) 27866   c) 27864   d) none of these

3. Two numbers having only 1 as a common factor are called   1

   a) composite number   b) prime number   c) co-prime number   d) twin-prime number

4. Divisibility by 2, 5, 10 can be checked by   1

   a) last digit   b) sum of digits   c) last two digits   d) last three digits

5. Which is the smallest whole number?   1

   a) 1   b) 0   c) – 1   d) none of these

6. The integer with negative sign (–) is always less than   1

   a) 0   b) – 3   c) – 1   d) – 2

7. A number was represented using tally marks as follows ꘒꘒ ꘒꘒ ll   1

   a) 11   b) 10   c) 12   d) 9

8. How many lines can passes through one given point?   1

   a) 1   b) infinite   c) 2   d) 3

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

   a) 3   b) 2   c) 5   d) 7

10. The greatest 4 digit number using one digit twice from digits 5, 9 and 6 is

    a) 5596   b) 9659   c) 9569   d) 9965
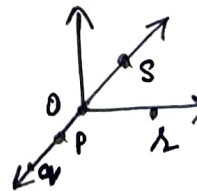
SECTION-B

11. Place commas suitably write the number names according to international system of   2
    numeration.

    a) 76432583   b) 489049831

12. Find factors a) 72   b) 37   2

13. In each of the following pair of numbers which number will lie left on number line   2

     a) 623,603   b) 27428, 26423

14. Name and draw a polygon with three sides and shade its interior.   2

15.   a) _____ order means arrangement from greatest to smallest.   2

    b) Counting numbers are called _____ numbers.

16. Find 2 digit prime number such that number obtained by reversing their digits are also prime.   2

17. Draw   (i) open curve   (ii) closed curve   2

18. a) Represent -6 on number line.   2

   b) Write all the integers between -6 and 6.

19. Using the number line write the integer which is 3 more than 6.   2

20. Fill in the blanks :   2

   a) A _____ represents data through picture of objects.

   b) In a pictograph ☺ = 10 flowers in a basket then ☺☺☺ = _____ flowers.

SECTION-C

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

22. a) How many whole numbers lie between 42 and 54 ?   3

   b) Write the predecessor of 10,000

23. Write the greatest 4 digit number and express it in terms of its prime factors?   3

24. Use the figure to name   3

   a) Five points
   b) Four rays
   c) Four line segment

25. Find the least number when divided by 12, 16, 24 and 36 leaves remainder 7 in each case.   3

26. a) $-17 - (-29)$ 3

   b) $-100 - 40 + (-30)$

   c) $-40 + (-250) + 120$

A-2

27. The blood group of 25 students are recorded as under   3

A, B, O, AB, AB, O, O, O, A, B, B, A, O, O, B, A, B, AB, A, A, AB, O, B, A, O

Make a table and enter the data using tally marks.

28. a) Length of river is 2043 km. Its length in metres is _____.   3

b) True or False

(i) There is one predecessor of 0 in whole number.

(ii) All natural numbers are whole numbers.

29. a) What is the HCF of two consecutive even number?   3

b) Is 17 and 35 are co-prime numbers solve by using factors.

30. a) Write four negative integers greater than -30 3

b) Write four integers less than -40

SECTION-D

31. A vessel has 7 litres of ice-cream. How many scoops of 60ml each can be made from it? What   4
quantity of ice-cream will left behind?

32. Two tankers contain 850 litres and 680 litres of kerosene oil. Find the maximum capacity of   4
container which can measure the kerosene oil of both the tankers when used an exact number
of times.

33. Following pictograph shows the number of absentees in a class of 30 students during the
previous week.   4

Days	Number of absentees	Δ = 1 Absentee
Monday	Δ Δ Δ Δ Δ	
Tuesday	Δ Δ Δ Δ	
Wednesday	Δ Δ	
Thursday	Δ Δ Δ	
Friday	Δ	
Saturday	Δ Δ Δ Δ Δ Δ Δ	

Observe the pictograph and answer the questions"

a) On which day minimum no. of students absent?

b) On which day maximum no. of absentee?

c) What was the total number of absentees in that week?

A - 3

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

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

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

1) Name the place above 20^0C
   a) Delhi   b) Siachin   c) Srinagar   d) Ahmedabad

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

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

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

4

1) The number 29 is _____
   a) Prime numbers   b) Composite numbers   c) Twin-prime numbers

2) 18 is which number ?
   a) Even number   b) Odd number

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

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

A-4

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5. Section – D : Q.No. 31 to 35 carry 4 marks each

SECTION-A

1. The smallest 6 digit number is   1

   a) one crore   b) ten lakh   c) one lakh   d) ten crore

2. The whole number occurring just after 15667 is   1

   a) 16000   b) 15666   c) 15668   d) 15600

3. Number that has only two factors is called   1

   a) composite number   b) co-prime number   c) prime number   d) twin-prime number

4. Divisibility by 3 and 9 can be checked by   1

   a) last digit   b) sum of digits   c) last two digits   d) last three digits

5. Which is the smallest natural number?   1

   a) 1   b) 0   c) – 1   d) none of these

6. Every integer less than 0 has the sign   1

   a) +   b) –   c) ÷   d) ×

7. Number represented using tally marks as follows 𝒩𝓤 ll is   1

   a) 5   b) 6   c) 7   d) 8

8. How many lines can pass through two given points?   1

   a) 1   b) infinite   c) 2   d) 3

9. Write the smallest composite number   1

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

10. The smallest 4 digit number using one digit twice from digits 5, 6 and 3 is   1

    a) 3569   b) 3556   c) 3365   d) 3356

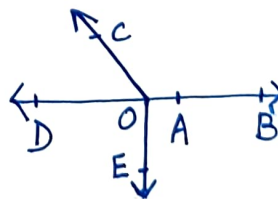## SECTION-B

11. Put comma's suitably and write the number name according to Indian system of numeration.   2

    a) 60985612   b) 7283514

12. Find factors   a) 41   b) 36   2

B-1

13. In each of the following pair of numbers, which number lie left on number line   2

   a) 289, 298   b) 14123, 19321

14. Name and draw a polygon with four sides and shade its interior.   2

15. a) _____ order means arrangement from smallest to greatest.   2

   b) Smallest whole number is _____

16. Write seven consecutive composite number less than 100 so that there is no prime number in   2
between them.

17. Consider the figure and answer   2
   a) It is a polygon?
   b) It is closed?

18. a) Represent + 4 on a number line.   2

   b) Write all the integers between − 18 and − 11 .

19. Using the number line, write the integer which is 3 less than − 1 .   2

20. Fill in the blanks :   2

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

   b) In a pictograph , symbol ☆ represent 5 starts. Then ☆☆☆☆ represent _____
   stars.

SECTION-C

21. A factory, on an average, produces 6423 bulbs in a day. How many bulbs does the factory   3
produce in the month of March?

22. a) Write the successor of 999.   3

   b) How many whole numbers are there between 62 and 73 ?

23. Write the smallest 5 digit number and express it in terms of its prime factors?   3

24. Use the figure to name   3

   a) A line
   b) Four rays
   c) A line segment
   d) Five points

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

B -2

26. Find   3

    a) $-50 + (-200) + 300$

    b) $(-13) + (-18)$

    c) $-1 + (-2) + (-3)$

27. Hitesh threw a dice 20 times and noted the number appearing each time as shown below   3

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.

28. a) State True or False   3

    (i) All whole numbers are natural numbers.

    (ii) There is no largest whole number.

    (iii) 4999 is the successor of 5000.

29. a) What is the HCF of two consecutive odd numbers?   3

    b) Are 4 and 15 co-prime? Show by using factors.

30. a) Write four negative integers greater than -25 3

    b) Write four integers less than -45

SECTION-D

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

32. Three tankers contain 403 litres, 434 litres and 465 litres of diesel. Find the maximum capacity   4
    of a container which can measure the diesel of the three containers exact number of times.

33. Following is the pictograph of number of watches manufactured during a week.   4

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

B-3

Observe the pictograph and answer the questions"
   a) How many watches were manufactured on Tuesday?
   b) On which day were maximum and minimum watches manufactured?
   c) On which days were same number of watches manufactured?

34. Following is the list of score of five students in a quiz out of 50.

Student	Score
Aryan	20 more than 0
Arjun	30 more than 0
Zoya	20 less than 0
Arnav	10 less than 0
Sonam	50 more than 0

4

On the basis of given information, answer the following questions:
   1) Who got highest score?
      a) Zoya   b) Sonam   c) Aryan   d) Arjun

   2) Name the student who got less than 10 score.
      a) Zoya and Arnav   b) Sonam and Zoya   c) Arjun and Aryan   d) Arjun and Arnav

   3) Who got lowest score?
      a) Arjun   b) Aryan   c) Zoya   d) Arnav

   4) Write the score of five students in ascending order.

35. A role play was conducted in class 6 and different roles were assigned to different students. Based on these roles, answer the following questions:

4

   1) Pair of numbers which have only 1 as common factor are called.
      a) Co-prime numbers   b) Prime numbers

      c) Twin prime number   d) Composite number

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

   3) Number 51 is _____ number.
      a) Prime numbers   b) Composite numbers

   4) Two prime numbers whose difference is 2 are called _____
      a) Co-prime number   b) Prime number

      c) Twin prime number   d) Composite number

B-4