Mathematics

Date: **Class: VI**

Time: 3 hours **M.M: 90**

General Instructions:

1. *Read the question paper carefully and answer legibly.*
2. *All questions are compulsory.*
3. *The question paper consists of 31 questions divided into four sections A, B, C and D.*
4. *Section A comprises of 4 questions of 1 mark each, Section B comprises of 6 questions of 2 marks each, Section C comprises of 10 questions of 3 marks each, Section D comprises of 11 questions of 4 marks each.*
5. *Use of calculators is not permitted.*

Section-A

1	Write the number name for 145,456,009.	1
2	How many whole numbers are there between 301 and 404?	1
3	Find the product of successor and predecessor of 99.	1
4	Find the smallest digit that should replace * to make 67*19 divisible by 3.	1

Section-B

5	Using properties of whole numbers, find the value of 56797× 65 + 56797 × 35.	2
6	Reeta pays Rs 1500 to her piano teacher and Rs 750 to donation club every month. Find the total amount paid by her in one year.	2
7	Using the divisibility rules check whether 345678 is divisible by 6 or not?	2
8	Draw a 6-sided polygon. Name it and shade its interior.	2
9	Fill in the blanks: a) The largest negative integer is _____ b) The predecessor of -421 is _____ c) Smallest whole number is_____ d) A number which has more than two factors is called a _____	2
10	Arrange the integers in ascending order: 10 , -11, -21, 0, -55	2

Section-C

11	Compare the following(show working also) a) (–56) – (–48)_____(–48) – (–56) b) – 71 – 98_____71 + 98	**(1.5+1.5)**

12 A merchant had Rs 80290 with him. He placed an order for purchasing 50 ceiling fans for Rs 1200 each. How much money will remain with him after the purchase? **3**

13 a) Neha and Riya starts from a common point O. Neha moves in North direction and Riya moves in east direction. Draw their paths and name them as N and E respectively. What type of angle is formed between their paths? **2 +1**

b) Write all the factors of 65.

14 A shopkeeper sold 20 stools for ₹ 530 each and 20 tables for ₹ 670 each. Find the total money received by the shopkeeper? (Use distributive property). **3**

15 Find the smallest 3 digit number exactly divisible by 6, 8 and 12? **3**

16 a) Write the number of faces, edges and vertices of a triangular prism.
b) Name the type of triangle in two different ways: ΔABC with $\angle B = 110^0$ and AB = AC. **3**

17 Simplify: **3**
a) 36 + (–43) – (–9)
b) (–12)– (–18) + 22

18 a) Find the number of right angles turned through by the hour of a clock when it goes from 2 to 8.
b) How many degrees are there in 3 right angles? **3**
c) Write number of faces and edges in Square Pyramid.

19 Use number line and add the integers: (–2) + 5 + (–4) **3**

20 a) The sum of two integers is -55. If one of them is 80, find the other? **3**

b) Write all the integers between 0 and -6 in the increasing order.

Section-D

21 The traffic lights at three different road crossings change after every 48 seconds, 72 second and 108 seconds respectively. If they change simultaneously at 5 a.m., at what time will they change simultaneously again? **4**

22 In a school, the members of Eco Club were taken for a trip to nearby nursery. As a part of a project children planted 98 saplings. The cost of each sapling is Rs 175. Find total amount spent on saplings (Using Distributive property). What is the benefit of conducting this activity in school? **4**

23 Draw a rough sketch of a regular pentagon . Draw and write the number of the diagonals it has. **4**

24 a) Estimate the sum 5290 + 7986 to nearest thousands.
b) Estimate the product 378 × 217 to nearest hundreds **4**

25 Using divisibility test, determine whether the number 245635 is divisible by 11 or not? Is it

divisible by 8? Give reason. **(3+1)**

26 In the figure given below:

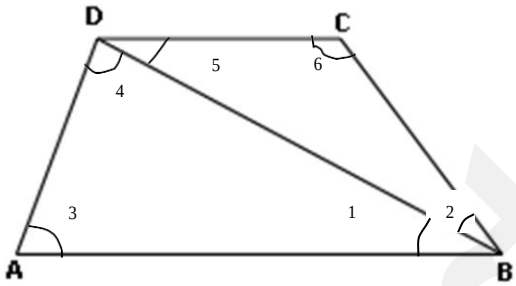
a) ∠3 can be renamed using three letters as ∠ _____or ∠ _____. **4**

b) The common arm of ∠1 and ∠2 is_____.

c) A pair of parallel line segments is_____.

d) _____is the diagonal of Figure.

e) Name ∠6 and∠5._____.



27 Draw the rough sketch to represent the following:

a) Point F lies on line segment CD. **4**

b) Ray SP and Ray ST intersect at S.

c) Two angles having one ray in common.

d) Line m contain points T and L but not point C

28 From one sheet of thick wood 6 pages of paper can be made. How many pages can be made with 75000 sheets of wood? If in one book there are 150 pages, how many books can be made with the help of these pages? **4**

29 Using suitable properties, find:

a) 8 × 236 × 125 (b) 1001 × 348 **4**

30 Draw a circle with centre P and radius 5 cm. Mark and name the following:

a) its diameter b) its radius c) a segment d) an arc e) a sector **4**

31 Draw a rough sketch of a quadrilateral PINK. State:

a) A pair of opposite sides

b) A pair of opposite angles

c) A pair of adjacent sides

d) A pair of adjacent angles **4**