



(ISO 9001:2015 CERTIFIED INSTITUTION)
MODEL EXAMINATION- 2019-'20
MATHEMATICS

ISAM/FR/MDL/QP/02

Class:VI

Date:

Max. Marks: 80

Time: 3 Hours

General Instructions:

1. All questions are compulsory
2. The question paper consists of 35 questions divided into four sections A,B,C and D. Section A comprises of 10 questions of 1 mark each, Section B comprises of 10 questions of 2 marks each, Section C comprises of 10 questions of 3 mark each and section D comprises of 5 questions of 4 marks each. Question numbers 1 to 10 in section A are objective type. Internal choice has been provided in 3 questions of 2 marks , 3 questions of 3 marks and 2 questions of 4 marks.
3. Use of calculators is not permitted.
4. Use of whiteners are not allowed.
5. Only the answers are to be written in the answer sheet with correct question number.

SECTION A

Choose the correct answer:

1. The Roman numeral for 53 is ----- 1
a)LII b)LXXXVIII c)LIII d)CX
2. The smallest composite number is ----- 1
a)2 b)1 c)3 d)4
3. _____ is the longest chord of a circle. 1
a)radius b)diameter c)chord d)arc
4. A number is called a ----- number if the sum of all its factors is equal to twice the number. 1
a) odd b) perfect c) coprime d)even
5. $(-25) - (-25) =$ 1
a) 0 b) 50 c) -50 d) +25
6. The rectangle has _____ lines of symmetry. 1
a)4 b) 1 c) 2 d) 5
7. If Sarita's present age is x years, what will be her age 5 years from now? 1
a) $(x-5)$ yrs b) $(x+5)$ yrs c) $5x$ yrs d) $5/x$ yrs
8. Two numbers that have only 1 as a common factor are known as ----- 1
a)perfect number b) coprime number c) twin prime number
9. The successor of 1 million is 1
a)2 millions b) 1000001 c)100001 d)10001
10. Which of the following number is a perfect number 1
a)4 b) 6 c)8 d)12

SECTION B

DO AS DIRECTED:

11. a) Find the greatest and smallest 5-digit number using 2,0,1,9,4 without repetition. 2
 b) Write the expanded form of 542903.

12. Simplify using suitable property: $255 \times 42 + 255 \times 58$ 2

13. a) Write all the prime numbers between 10 and 20. 2
 b) Find first 5 multiples of 12.

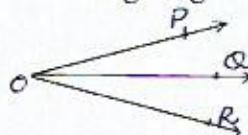
14. Draw a circle of radius 4cm and mark its centre. Mark any chord on it. Also measure its diameter. 2

15. Estimate the product using general rule: 527×43 2

16. a) Which is the greatest negative integer? 2
 b) Arrange the following integers in descending order:
 $-10, 1, -3, -7, 9, 2, -4$

17. Find the product using suitable rearrangements: 2
 $25 \times 8961 \times 4 \times 50 \times 2$

18. Write three angles and the common vertex of the figure given below: 2



OR

How many lines can be drawn passing through

(a) one point (b) two given points.

19. a) What is the difference between the successor and predecessor of 1,23,651? 2
 b) State the property of whole numbers used in $35 + (17+21) = (35+17) + 21$?
 OR
 Find the product $4 \times 2518 \times 25$.

20. The sum of two integers is 256. If one of them is -65. What is the other integer? 2

OR

a) Write the opposite of -101
 b) Which temperature is lower -3°C or 0°C

SECTION C

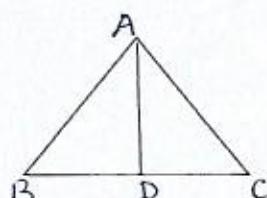
21. Solve the following 3
 a) $3x + 17 = 32$
 b) $5x + 3 = 4x + 8$

22. Using divisibility test, check whether 376948 is divisible by 11 and 3. 3

23. a) Represent -4 on a number line. b) Write all the integers between -7 and 7. 3

24. a) Find first 3 common multiples of 8 and 12. 3
 b) Find the prime factorisation of 960.

25. Identify : a) three triangles b) six angles 3



26. Insert commas and write the number name of 64543001 in Indian as well as in International system of numeration. 3

27. Find the LCM of 189,223 and 347 3

28. Add the following 3
 a)-33 +(-55)
 b) -81 - (-37)

OR

Subtract the sum of 28 and -12 from 50.

29. If a notebook costs \square p and a pencil costs \square 3 , then the total cost (in \square) of two note books and one pencil. Give the corresponding expression. 3

OR

Four bells ring at intervals of 3,7,12 and 14 minutes , respectively. All four rang together at 12 noon. When will they ring together again ?

30. The population of a town was 9,75,689. In 2001 it increased by 4563 and in 2002 it decreased by 8976. What was the population of the town in 2001 and 2002? 3

OR

In a class there are 23 boys and 18 girls. How many students are there in six such classes? Write the mathematical statement.

SECTION D

31. Arun is the owner of a dairy outlet. He sold 410 litres of milk on Saturday and 593 litres of milk on Sunday. If the milk costs Rs.32 per litre, find how much Arun earned by selling milk on Saturday and Sunday. Solve using the property. 4

32. Draw any quadrilateral ABCD. Write any one pair of: a) Adjacent sides 4
 b) Adjacent angles c) Opposite sides d) Opposite angles. Also write its diagonals.

33. a) Write four negative integers greater than -20.
 b) Find the sum of -225 and -76.

34. a) Find the difference between the place-values of the two 2's in 4,21,78,269. 4
 b) Sonu plants 5100 mango trees in 17 rows such that each row has the same number of trees. How many trees are there in each row?

OR

a) The town newspaper is published every day. One copy has 15 pages. Everyday 13,256 copies are printed. How many total pages are printed every day?

b) Find the product of the face value and place value of 3 in 235698.

35. Two tankers contain 850litres and 680litres 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. 4

OR

Find the least number which when divided by 24, 36 and 54 gives a remainder of 6 each time?