परमाणु ऊर्जा शिक्षण संस्था
Atomic Energy Education Society

टर्म-1/आवधिक परीक्षा-2 2023-24 Term-I/PT-II Examination 2023 - 24

कक्षा / Class : VI **अवधि / Duration : 3 Hours**

विषय / Subject :MATHEMATICS **अधिकतम अंक/ Maximum Marks: 80**

General Instructions:

SECTION A - 1 to 30 (30 questions 1 mark each.)

SECTION B - 31 to 34 (4 questions 2 marks each.)

35 to 40 (6 questions 3 marks each.)

41 to 46 (6 questions 4 marks each.)

Section A (1 x 30 = 30 Marks)

1. Use the given digits without repetition and make the greatest and smallest 4-digit numbers. 9, 7, 4, 1 [1]

a) 9471, 1749 b) 9174, 4719

c) 9714, 4179 d) 9741, 1479

2. Expanded form of 456789 is [1]

a) 4x100000+5x10000+6x1000+7x100+8x10+9x1

b) 4x100000+5x10000+6x1000+7x100+9x1

c) 4x100000+5x10000+6x1000+8x10+9x1

d) 4x100000+5x10000+6x1000+7x100+8x10

3. 123456 ___78945 [1]

a) > b) =

c) None of these d) <

4. The product of a non-zero whole number and its successor always divisible by [1]

a) 2 b) 4 c) 5 d) 3

5. The number with which 86 is multiplied so that product remains the same is _____. [1]

a) 86 b) $\frac{1}{86}$ c) 1 d) 0

6. How many whole numbers are there between 1018 and 1203? [1]

a) 186 b) 184 c) 185 d) 183

7. All natural numbers are_____numbers. [1]

a) whole b) irrational c) 0 d) 1

8. The number of common prime factors of 75, 60, 105 is [1]

a) 5 b) 2 c) 3 d) 4

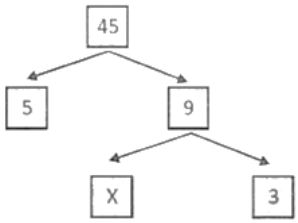
9. Find the HCF of 45, 56 and 70. [1]

a) 9 b) 4 c) 1 d) 5

10. The number of multiples of a given number is_____. [1]

a) None of these b) infinite c) 2 d) finite

11. What will come in the place of X in the figure given below? [1]



a) 7 b) 4 c) 6 d) 3

12. If the sum of two angles is equal to an obtuse angle, then which one of the following is not possible? [1]

a) One obtuse angle and one acute angle b) Two right angles

c) One right angle and one acute angle d) Two acute angles

13. Which one of the following figures is an example of open curve? [1]


a)


b)


c)


d)

14. When two lines lie in the same plane and do not intersect, they are called, [1]

a) intersecting lines b) perpendicular lines

c) concurrent lines d) parallel lines

15. How many vertices are there in a hexagon? [1]

a) 6 b) 8 c) 4 d) 2

16. 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? [1]

a) 4500 b) 3000 c) 3500 d) 4000

17. A triangle, whose two sides are of equal length is called a/an ____ [1]

a) scalene triangle b) equilateral triangle

c) Both scalene triangle and isosceles triangle d) isosceles triangle

18. An angle whose measure is the sum of the measures of two right angles is_____. [1]

a) None of these b) straight angle c) complete angle d) reflex angle

19. Name the quadrilateral with property "One pair of parallel sides". [1]

a) Parallelogram b) Trapezium c) Rhombus d) Rectangle

20. An angle whose measure is greater than that of a right angle is_____. [1]

a) obtuse b) acute c) right d) None of these

21. Where will the hand of a clock stop if it starts at 12 and makes half of a revolution, clockwise? [1]

a) 3 b) None of these c) 9 d) 6

22. Write the integer which is 3 more than 5. [1]

a) 8 b) -8 c) 2 d) -2

23. Sum of (-9) and 15. [1]

a) 90 b) -6 c) 6 d) 20

24. Add without using number line: (-13) + (+18) [1]

a) None of these b) 3 c) 4 d) 5

25. How many ten thousand makes a lakh? [1]

a) 10 b) 100 c) 1000 d) none of these

26. What number is being represented by points A and B respectively on the number line? [1]

a) -3 and 2 b) -2 and -3 c) 3 and 2 d) 3 and -2

27. **Assertion (A):** 267 is greater than 276.
Reason (R): When a number is larger than the second number it is known as a greater number. [1]

a) Both A and R are true and R is the correct explanation of A.
b) A is true but R is false.
c) Both A and R are true but R is not the correct explanation of A.
d) A is false but R is true.

28. **Assertion (A):** 0 is not a whole number.
Reason (R): Whole numbers are natural numbers with zero. [1]

a) Both A and R are true and R is the correct explanation of A.
b) Both A and R are true but R is not the correct explanation of A.
c) A is true but R is false.
d) A is false but R is true.

29. **Assertion (A):** The factors of 20 are 1, 2, 5, 10.
Reason (R): Every factor is less than or equal to the given number. [1]

a) Both A and R are true and R is the correct explanation of A.
b) Both A and R are true but R is not the correct explanation of A.
c) A is true but R is false.
d) A is false but R is true

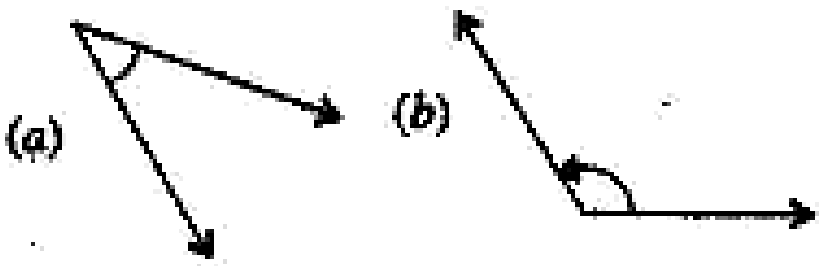
30. **Assertion (A):** The succeeding number of the number -1 is 0.
Reason (R): Succeeding number is the number that comes after a number. [1]

a) Both A and R are true and R is the correct explanation of A.
b) Both A and R are true but R is not the correct explanation of A.
c) A is true but R is false.
d) A is false but R is true.

Section B

31. Find the greatest 4- digit number which is exactly divisible by 88. [2]

32. Measure the angles given below, using the Protractor and write down the measure. [2]



33. Find the solution of (–4) + (+13) without using a number line. [2]

34. Put comma according to International system and write the number name. [2]

a. 123450

b. 67834123

35. Medicine is packed in boxes, each weighing 4 kg 500 g. How many such boxes can be loaded in a van which cannot carry beyond 800 kg ? [3]

36. Using divisibility test, determine if number 901352 is divisible by 6. [3]

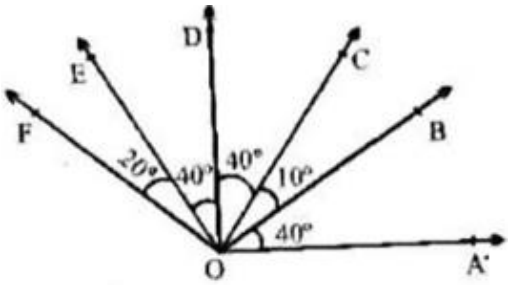
37. Illustrate, if possible, each one of the following with a rough diagram: [3]

i. A closed curve that is not a polygon.

ii. An open curve made up entirely of line segments.

iii. A polygon with two sides.

38. In the given figure: [3]



a. ∠AOC is a/an…….. angle.

b. ∠BOE is a/an…….. angle.

c. ∠COF is a/an…….. angle

39. **Read the text carefully and answer the questions:** [3]

The temperature of 5 cities in the U.S is listed in the chart. Answer the following questions .

CITY	DEGREE
Carson	7^o
Baytown	-13^o
Holster	-5^o
Rider	0^o
Dover	12^o

(i) 0^{o} is than -5^{o}.

a) smaller b) greater c) equal to d) none of these

(ii) Name the city that was warmest.

a) Rider b) Dover c) Carson d) Baytown

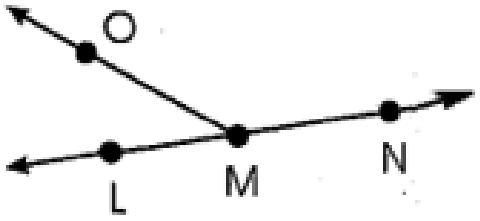
(iii) Which city was the coldest?

a) Baytown b) Carson c) Dover d) Holster

40. Using divisibility tests, determine if the number 2150 is divisible by: [3]

a. 4 b. 8

41. Use the figure to the right to answer each question, [4]



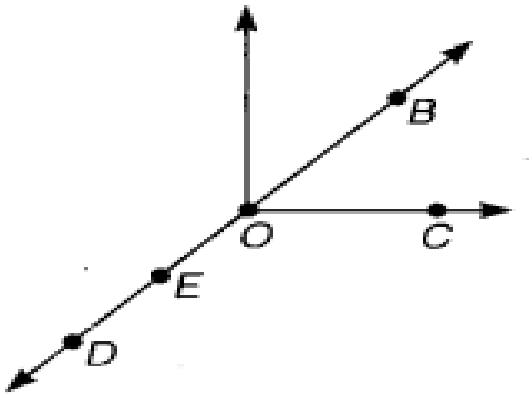
(a) Name four points: …….

(b) Name two line segment: ……

(c) Name three rays: ……

(d) Name the line in three ways taking two-two points pairwise: …….

42. Use the figure to name: [4]



a) Five points

b) A line

c) Four rays

d) Five line segments

43. Answer the following questions: [4]

A) What is the measure of the angle in degree between North and south?

B) i) What is the angle measure between the hands of the clock in the given figure?

ii. How much revolution is possible while going from north to south?

iii. How many acute angles are there in an acute angled triangle?

44. Give reasons for the following. [4]

(a) A square can be thought of as a special rectangle.

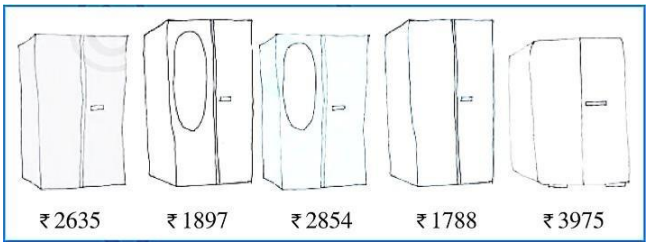
(b) Rectangle is also a parallelogram.

(c) Parallelogram is a quadrilateral.

(d) A square can be thought of as a special rhombus.

45. Read the text carefully and answer the questions: [4]

Sohan and Rita went to buy an almirah. There were many almirahs available with their price tags.



(i) The lowest cost of almirah is ₹…….. .

(ii) Sohan and Rita purchased one almirah with mirror and paid lower for low cost, so what is the cost price for them?

a) None of these b) ₹2854 c) ₹1897 d) ₹1788

(iii) Arrange prices of almirahs in increasing order.

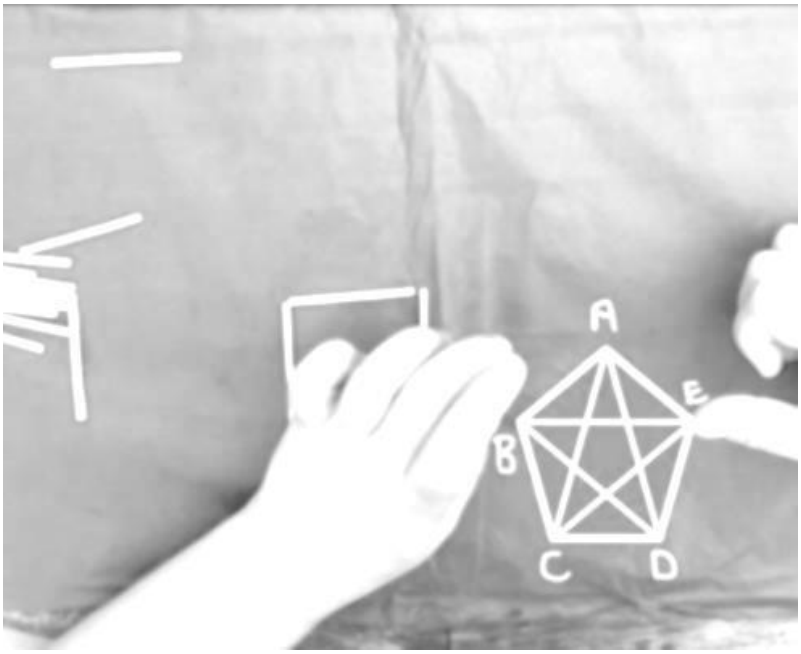
a) ₹1788,₹1897,₹2635,₹2854,₹3975
b) ₹2635,₹1897,₹2854,₹1788,₹3975
c) ₹2635,₹1897,₹2854,₹1788,₹3975
d) ₹2635,₹1897,₹2854,₹1788,₹3975

(iv) Arrange prices of almirahs in decreasing order

a) ₹3975,₹2854,₹2635,₹1897,₹1788
b) ₹2635,₹1897,₹2854,₹1788,₹3975
c) ₹2635,₹1897,₹2854,₹1788,₹3975
d) ₹1788,₹1897,₹2635,₹2854,₹3975

46. Read the text carefully and answer the questions: [4]

Sanju made polygon with 5 Matchsticks as below and Name it. With this polygon he is trying to answer the following questions.



(i) ……is a simple closed figure made up entirely of line segments.

(ii) Name diagonals of polygon

(a) $\overline{AC}, \overline{AD}, \overline{BC}, \overline{CE}, and\ \overline{DE}$

(b) $\overline{AB}, \overline{AD}, \overline{BC}, \overline{CE}, and\ \overline{BE}$

(c) $\overline{AC}, \overline{AD}, \overline{BC}, \overline{CE}, and\ \overline{BE}$

(d) $\overline{AC}, \overline{AD}, \overline{BD}, \overline{CE}, and\ \overline{BE}$

(iii) Name the adjacent sides of given polygon.

(a) $\overline{AB}, \overline{BC}, \overline{CD}, \overline{DE}, and\ \overline{EA}$

(b) $\overline{AC}, \overline{AD}, \overline{BC}, \overline{CE}, and\ \overline{BE}$

(c) $\overline{AB}, \overline{AE}, \overline{BC}, \overline{CE}, and\ \overline{BE}$

(d) $\overline{AB}, \overline{BD}, \overline{BC}, \overline{CE}, and\ \overline{BE}$

(iv) Name the given polygon

a) Pentagon b) Hexagon

c) Triangle d) Quadrilateral