O. P. JINDAL SCHOOL, SAVITRI NAGAR

Annual Examination (2022 – 2023)

Sample Paper

Class / Section: VI **MM: 80**

Subject: Mathematics **Time: 3Hrs.**

Name: _____ Roll No. :_____

(Fifteen Minutes Extra will be given for reading the Question Paper.)

General Instructions:

(i) This question paper consists of 38 questions divided into 5 sections A to E.

(ii) Section A has 20 MCQs carrying 1 mark each.

(iii) Section B has 5 questions carrying 2 marks each.

(iv) Section C has 6 questions carrying 3 marks each.

(v) Section D has 4 questions carrying 5marks each.

(vi) Section E has 3 case based integrated units of assessment (04 marks each) with sub-parts of the values of 1 mark each.

(vii) All the questions are compulsory. There is no overall choice. However an internal choice has been provided. You have to attempt only one of the alternatives in all such questions.

SECTION – A

Question numbers 1 to 20 are of 1 mark each.

Q1. Two distinct lines meeting at a point are called _____ lines.

a) Perpendicular b) Parallel c) Intersecting d) Curve

Q2. A _____ is a three-sided polygon.

a) Pentagon b) Hexagon c) Triangle d) Octagon

Q3. Express 200 g as kg using decimal.

a) 0.2 b) 0.02 c) 0.5 d) 200

Q4. The _____ of a circle divides it into semi-circles.

a) Diameter b) Sector c) Centre d) Radius

Q5. One full turn of the hand of a clock is 1 _____.

a) Rotation b) Revolution c) Line d) None of these

Q6. Which is greater: 0.004 or 0.400?

a) 0.400 b) 0.004 c) 0.04 d) None of these

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Q7. The perimeter of a square of side 14 cm is _____.

a) 50 cm b) 30 cm c) 35 cm d) 56 cm `

Q8. Name the triangle whose all three sides are of equal length.

a) Acute-angled Triangle b) Equilateral c) Scalene d) Isosceles

Q9. Name the quadrilateral with only one pair of parallel sides.

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

Q10. Two hundreds six tens and nine-tenths can be written in decimal as:

a) 26.09 b) 260.9 c) 29.6 d) 206.9

Q11. Choose the correct algebraic expression for: Twice a number increased by 8

a) $2z + 8$ b) $2z - 8$ c) $z - 8$ d) $z + 8$

Q12. Figures in which all sides and angles are equal are called _____ closed figures.

a) Irregular b) Normal c) Regular d) None of these

Q13. Find the ratio of 21 and 42.

a) 3:9 b) 1:2 c) 7:10 d) 1:3

Q14. Sania is 4 years elder than her sister. If sister's age is s, frame an expression for Sania's age.

a) 4s b) s + 4 c) 4/s d) 4 – s

Q15. Find the equivalent ratio of 4**:**15

a) 12**:**30 b) 2**:**7 c) 8**:**30 d) 6**:**5

Q16. Pick out the solution which satisfies the equation: $m + 10 = 35$

a) 20 b) 15 c) 10 d) 25

Q17. Lucky is 4 times as old as Ali. If Ali is x years old, what will be Lucky's age after 6 years?

a) $4x + 6$ b) $x + 6$ c) $4x$ d) $4x - 6$

Q18. If a bus covers 155 km in 5 hours, find the distance covered by the bus in 1 hour.

a) 33 km b) 45 km c) 31 km d) 165 km

Q19. Pick out the solution which satisfies the equation: $12n = 72$.

a) 9 b) 3 c) 6 d) 8

Q20. Complete angle = _____ °

a) 90º b) 360º c) 180º d) 30º

SECTION – B

Question numbers 21 to 25 are of 2 marks each.

Q21. Find the sum: 15.8 + 56.123 + 86.0

OR

Subtract: 72.357 m from 253.32 m.

Q22. If 18, x, 27 and 3 are in proportion, find the value of x.

Q23. Where will the hour hand of a clock stop if it starts at 1 and makes one-fourth of a revolution?

OR

Soma is facing east. Which direction will she face if she turns through one right angle in anti- clockwise direction?

Q24. If z is the side of a regular pentagon, represent the perimeter of the pentagon as algebraic expression. Find the perimeter when z = 6 cm.

Q25. Find the perimeter of regular octagon whose each side is 6.5 m.

SECTION – C

Question numbers 26 to 31 are of 3 marks each.

Q26. What is the cost of tiling a square piece of land of side 65 m at the rate of ₹ 70 per m^2 ?

OR

Ashok takes 6 rounds of a rectangular park, 50 m long and 25 m wide. Find the total distance covered by him.

Q27. Draw a quadrilateral MNOP and state:

a) Two pairs of opposite angles.
b) Four sides.
c) Two pairs of adjacent angles.

Q28. Write the number of faces, edges and corners of a square pyramid.

OR

What fraction of a clockwise revolution does the hour hand of a clock turn through when it goes from:

a) 9 to 12.
b) 8 to 11
c) 9 to 3

Q29. A train is travelling at a constant speed of 165 km in 3 hours. How much distance it will cover in 6 hours?

OR

If 72 m of cloth is required for 9 curtains,

a) How many curtains can be made from 40 m of cloth?
b) Find out the length of the cloth in metre required for 7 curtains.

Q30. Draw AB of length 6 cm. Mark a point P on it. Through P, draw a perpendicular to AB.

Q31. The marks (out of 10) obtained by 28 students in a Mathematics test are listed as below:

8, 5, 4, 6, 5, 5, 5, 9, 7, 9, 7, 10, 8, 5, 8, 4, 7, 8, 10, 10, 3, 4, 8, 7, 8, 9, 7, 6

Make a table and enter the data using tally marks.

SECTION –D

Question numbers 32 to 35 are of 5 marks each.

Q32. Find the cost of fencing 2 rounds of wire of a rectangular park of length 170 m and 120 m at the rate of ₹12 per m.

Q33. The names and numbers of animals in a certain zoo are given below. Use the data to make a bar graph.

Animals	Deer	Tiger	Monkey	Rabbit	Peacock	Fox
No. of Animals	40	5	45	25	30	15

Q34. Draw an angle of measure 60º and bisect it using ruler and compass.

OR

Draw an angle of measure 120º with ruler and compass.

Q35. Rita bought a 20 kg fruit basket which contains 5 kg 70 g of mangoes, 8 kg 200 g of guavas and 3 kg 60 g of apples. Find the total weight (in decimals) of the fruits in the basket.

OR

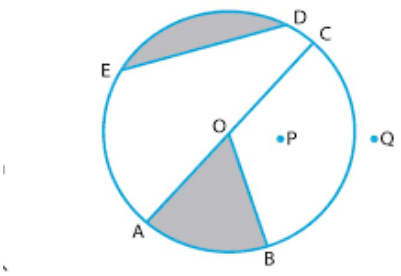
A tank contains 4.3 kL of water. Out of this, 1250 litres of water was used. How much water is left in the tank?

SECTION – E

Question numbers 36 to 38 are of 4 marks each.

Q36. From the figure, identify:

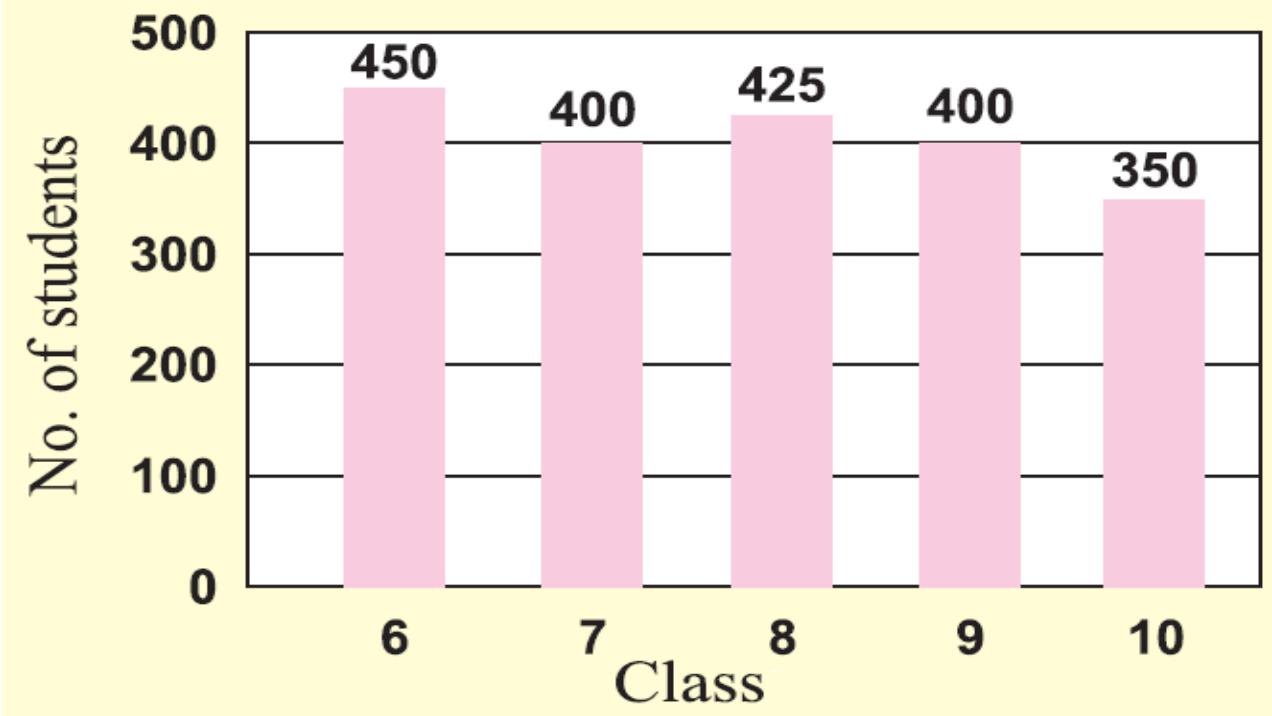
(i) a chord
(ii) points in the interior of the circle
(iii) a segment
(iv) a sector



Q37. In a pencil box, there are 4 pens, 8 pencils, 3 erasers and 2 rulers. Find the ratio of :

(i) the number of pens to the number of pencils.
(ii) the number of erasersto the number of pens.
(iii) the number of rulers to the number of pencils.
(iv) the number of rulers to the number of erasers.

Q38. The number of students in each class of a school is given in the bar graph.



(i) Which class has the maximum number of students?
(ii) How many students are there in class 8?
(iii) Which class has the minimum number of students?
(iv) How many total students are there in all the classes?

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