

O. P. JINDAL SCHOOL, SAVTRI NAGAR
Annual Examination (2022 – 2023)

Class / Section: VI
Subject: Mathematics

MM: 80
Time: 3Hrs.

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 5 marks 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.

Question numbers 1 to 20 are of 1 mark each.

SECTION – A

- Q1. Two lines in a plane are said to be _____ if they do not meet.
a) Perpendicular b) Parallel c) Intersecting d) Curve
- Q2. Name the triangle whose all three sides are of unequal length.
a) Scalene b) Equilateral c) Isosceles d) Octagon
- Q3. A reflex angle is _____ than a straight angle.
a) Smaller b) Equal c) Larger d) None of these
- Q4. A _____ of a circle is a line segment joining any two points on the circle.
a) Chord b) Sector c) Radius d) Segment
- Q5. An angle whose measure is less than that of a right angle is _____.
a) Obuse b) Acute c) Straight d) Complete
- Q6. A _____ is a four-sided polygon.
a) Triangle b) Pentagon c) Hexagon d) Quadrilateral

- Q7. Three tens and five-tenths can be written in decimal as:
 a) 2.5 b) 30.5 c) 3.05 d) 30.05
- Q8. Which is greater: 4.56 or 4.650?
 a) 4.650 b) 4.56 c) 4 d) None of these
- Q9. Express 5mm as cm using decimal.
 a) 0.5 b) 1.5 c) 0.05 d) 5.0
- Q10. The perimeter of an equilateral triangle of side 7 cm is _____.
 a) 50 cm b) 21 cm c) 14 cm d) 49 cm
- Q11. If Soma's present age is x years, what was her age 4 years back?
 a) $x + 4$ b) $x - 4$ c) $y + 4$ d) $y - 4$
- Q12. The amount of surface enclosed by a closed figure is called its _____.
 a) Volume b) Area c) Perimeter d) None of these
- Q13. Choose the correct algebraic expression for: 7 is added to y
 a) $y + 7$ b) $y - 7$ c) $7y$ d) y
- Q14. Raman's grandfather is 7 times his age. What is the age of his grandfather if Raman's age is r ?
 a) $4r$ b) $5r$ c) $6r$ d) $7r$
- Q15. Find the ratio of 18 and 60.
 a) 3:10 b) 1:8 c) 9:10 d) 8:6
- Q16. Pick out the solution which satisfies the equation: $t - 10 = 15$
 a) 20 b) 25 c) 10 d) 30
- Q17. Find the equivalent ratio of 20:50
 a) 2:5 b) 5:2 c) 3:5 d) none of these
- Q18. If the cost of one litre of milk is ₹42, what will be the cost of 8 litres of milk?
 a) 320 b) 336 c) 340 d) 330
- Q19. Straight angle = _____ °
 a) 90° b) 360° c) 180° d) 28°
- Q20. Pick out the solution which satisfies the equation: $4n = 64$
 a) 10 b) 16 c) 20 d) 64

- Q31. Mahesh is a footballer. In the last 20 matches, he scored the following number of goals.
2, 1, 2, 1, 0, 3, 1, 2, 3, 1, 3, 0, 2, 3, 1, 2, 1, 3, 1, 2
Make a table and enter the data using tally marks.
- Q30. Draw AB of length 8 cm and find its axis of symmetry.
If the weight of 12 bags of wheat is 90 kg, how much will 20 bags weigh?

OR

- Q29. Rohan made 84 runs in 7 overs and David made 78 runs in 6 overs. Who played better?
What is the cost of tiling a rectangular park 90 m long and 60 m wide at the rate of ₹ 50 per m²?

OR

- Q28. Find the cost of fencing a square field of side 150 m at the rate of ₹ 30 per metre.

- Q27. Draw a rectangle PQRS and state:
a) Two pairs of opposite sides.
b) Four angles.
c) Two pairs of adjacent sides.

- Name the types of following triangles:
a) Triangles whose sides are 8 cm, 6 cm, and 9 cm.
b) $\triangle DEF$ with $m\angle E = 90^\circ$
c) $\triangle ABC$ such that $AB = BC = AC = 7$ cm.

OR

- Q26. Write the number of faces, edges and corners of a triangular pyramid.

Question numbers 26 to 31 are of 3 marks each.

SECTION - C

- Q25. Give two equivalent ratios of 5:7.
- Q24. The side of an equilateral triangle is shown by z. Express the perimeter of the equilateral triangle using z.
Find the sum: $35.75 + 0.655 + 2.8$

OR

- Q23. Subtract: 3.251 km from 7.306 km
- Q22. Find the perimeter of regular pentagon whose each side is 9m.
- How many right angles do you make if you start facing north and turn clockwise to west?

OR

- Q21. Where will the hour hand of a clock stop if it starts from 9 and turns through 2 right angles?

Question numbers 21 to 25 are of 2 marks each.

SECTION - B

SECTION -D

Question numbers 32 to 35 are of 5 marks each.

Q32. How many tiles whose length and breadth are 16 cm and 5 cm respectively will be needed to fit in a rectangular park whose length and breadth are 120 cm and 140 cm respectively?

Q33. The data given below shows the number of absentees in a class during a week.

Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
No. of Absentees	25	20	30	26	15	10

Represent the data using a bar graph.

Q34. Seeta bought 9 kg 40 g potatoes, 6 kg 20 g onions and 3 kg 500 g tomatoes. Find the total weight of all the vegetables she bought.

OR

A milkman has 31 litres 230 ml milk. He sold 12 litres 500 ml to one customer, 8 litres 700 ml to another customer and the rest to the third customer. How much milk did the third customer get?

Q35. Draw an angle of measure 135° with ruler and compass.

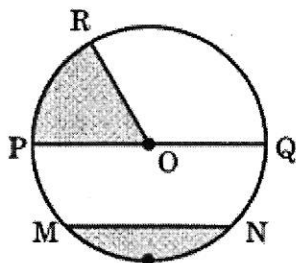
OR

Draw an angle of measure 90° using ruler and compass and bisect it.

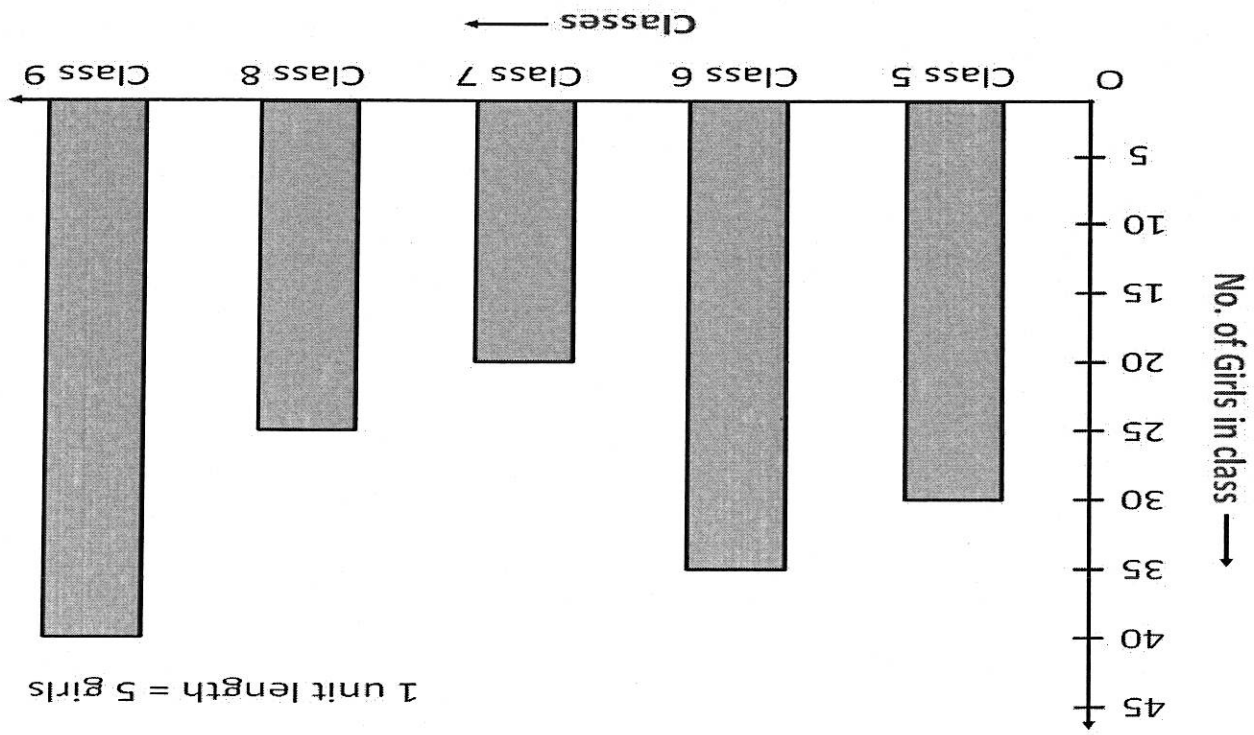
SECTION - E

Question numbers 36 to 38 are of 4 marks each.

- Q36.** From the figure, identify:
- (i) the centre of the circle
 - (ii) two radii
 - (iii) a diameter
 - (iv) a sector



- (i) Which class has the maximum number of girls?
- (ii) How many girls are there in class 6?
- (iii) Which class has the minimum number of girls?
- (iv) How many total girls are there in all the classes?



Q38. Observe the graph and answer the questions given below.

- (i) the number of yellow fish to the number of white fish.
- (ii) the number of star fish to the total number of fish.
- (iii) the number of red fish to the number of white fish.
- (iv) the number of star fish to the number of red fish.

Q37. In an aquarium, there are 3 red, 6 yellow, 4 white and 2 star fish. Find the ratio of :

Prepared By - Sneha Nandi
Checked By - Radhika



