

Practice Paper (2023-24)
Class – IX
Mathematics

Time Allowed: 3 Hrs.

Maximum Marks: 80

General Instructions:

1. This Question Paper has 5 Sections A, B, C, D, and E.
2. Section A has 20 Multiple Choice Questions (MCQs) carrying 1 mark each.
3. Section B has 5 Short Answer-I (SA-I) type questions carrying 2 marks each.
4. Section C has 6 Short Answer-II (SA-II) type questions carrying 3 marks each.
5. Section D has 4 Long Answer (LA) type questions carrying 5 marks each.
6. Section E has 3 sourced based/Case Based/passages based/integrated units of assessment (4 marks each) with sub-parts of the values of 1, 1 and 2 marks each respectively.
7. All Questions are compulsory. However, an internal choice in 2 Questions of 2 marks, 2 Questions of 3 marks and 2 Questions of 5 marks has been provided. An internal choice has been provided in the 2 marks questions of Section E.
8. Draw neat figures wherever required. Take $\pi = 22/7$ wherever required if not Stated.

SECTION A

Q 1-20 are multiple choice questions. Each question is of 1 mark.

1. The product of any two irrational numbers is:
 - a. always an irrational number
 - b. always a rational number
 - c. always an integer
 - d. sometimes rational, sometimes irrational
2. The perimeter of a triangle is 60 cm. If its sides are in the ratio 1:3:2, then its smallest side is
 - a. 15cm
 - b. 5 cm
 - c. 10 cm
 - d. none of these
3. If (2, 0) is a solution of the linear equation $2x + 3y = k$, then the value of k is:
 - a. -4
 - b. 6
 - c. 5
 - d. 4

4. In figure, BC is a diameter of the circle and $\angle BAO = 60^\circ$. Then $\angle ADC$ is equal to:



- a. 30°
- b. 45°
- c. 60°
- d. 120°

5. The base diameter of a cone is 10.5 cm, and its slant height is 10 cm. The area of a curved Surface is :
 - a. 150 sq.cm
 - b. 165 sq.cm
 - c. 177 sq.cm
 - d. 180 sq.cm

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web the bending moment m_x at any point x along the beam can be found by using the following equations bending moment diagrams are simply plots of the bending moment on the y axis versus the position of various points along the beam on the x axis thus the following is the generalized bending moment diagram for the beam shown above

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web results seem to be plausible both lines start at the origin so bending moments are zero if the load is zero the slope bending moment vs load is 0 for experimental bending moment and 0 for theoretical bending moment this means that on average an experimental bending moment is 13 larger this is an estimated error

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web abstract in this experiment we will analyze the effect of a load on a beam beam bending is quite a common experiment carried in mechanical engineering and aerospace design this experiment uses a simple support beam on which loads are applied at

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web values of the bending moment obtained from the experiment are presented in the table all the data is presented in the graph the graph of the theoretical bending moment is showing directly proportional indicating that when load is

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web distance between the point of application of force and fixed end of the beam introduction to experiment this experiment is about studying the effect of force magnitude on bending of beam and for that structure hardware called str2 bending moment in a beam is used

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