

CLASS IX

Session- 2022-23

Subject- Mathematics

Sample Question Paper 4

Time Allowed: 3 hrs

Maximum Marks: 80

General Instructions:

1. This Question Paper has 5 Sections A-E.
2. Section A has 20 MCQs carrying 1 mark each
3. Section B has 5 questions carrying 02 marks each.
4. Section C has 6 questions carrying 03 marks each.
5. Section D has 4 questions carrying 05 marks each.
6. Section E has 3 case based integrated units of assessment (04 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 Qs of 5 marks, 2 Qs of 3 marks and 2 Questions of 2 marks has been provided. An internal choice has been provided in the 2 marks questions of Section E

Draw neat figures wherever required. Take $\pi = 22/7$ wherever required if not stated.

SECTION A

Section A consists of 20 questions of 1 mark each.

1. What is the value of $(256)^{0.16} + (256)^{0.09}$
(b) 4 (b) 16 (c) 64 (d) 256.25
2. The simplest rationalising factor of $\sqrt[3]{500}$ is
(a) $\sqrt[3]{2}$ (b) $\sqrt[3]{5}$ (c) $\sqrt{3}$ (d) none of these
3. If $a + b + c = 9$ and $ab + bc + ca = 23$ then $a^2 + b^2 + c^2$
(a) 35 (b) 58 (c) 127 (d) none of these
4. If $x = -1$ and $y = 2$ is a solution of the equation $3x + 4y = k$, find the value of k .
(a) 1 (b) 0 (c) 2 (d) 5
5. What is the distance between the graph of the equations $x = -3$ and $x = 2$
(a) 4 units (b) 6 units (c) 5 units (d) 2 units
6. The graph of the linear equation $2x - y = 4$ cuts the x axis at the point
(a) (2,0) (b) (-2,0) (c) (0,-4) (d) (0,4)
7. If two acute angles of a right angle are equal, then each acute is equal to
(a) 30° (b) 45° (c) 60° (d) 90°
8. If $\triangle ABC \cong \triangle LKM$ equal to side AC of $\triangle ABC$ is
(a) LK (b) KM (c) LM (d) None of these
9. The bisectors of the angle of a parallelogram enclose a
(a) parallelogram (b) rhombus (c) rectangle (d) triangle
10. The area of the triangle formed by the points A (2,0) , B(6,0) and C (4,6) is
(a) 24 sq units (b) 12 sq units (c) 10 sq units (d) none of these

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