

# 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)  $30^\circ$  (b)  $45^\circ$  (c)  $60^\circ$  (d)  $90^\circ$
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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