#### CLASS IX

#### Session- 2022-23

#### Subject- Mathematics

#### Sample Question Paper 4

#### Time Allowed: 3 hrs

#### Maximum Marks: 80

#### General Instructions:

- 1. This Ouestion Paper has 5 Sections A-E.
- 2. Section A has 20 MCOs 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.
- 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.

- What is the value of (256)<sup>0.16</sup> + (256)<sup>0.09</sup>
  - (B) 4 (b)16
- (d) 256.25
- The simplest rationalising factor of √500 is
- (b) V5  $(n)\sqrt{2}$ (c) V3 (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
  - (d) none of these (e) 127
- 4. If x = -1 and y = 2 is a solution of the equation 3x + 4y = k, find the value of k. (b) 0 (c) 2 Control
- 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) (-2.00)(c) (0,-4)(d) (0.4)
- 7. If two acute angles of a right angle are equal, then each acute is equal to (b) 45° (a)  $30^{\circ}$ (c)  $60^{\circ}$ 6db 9000
- If ΔABC 
   ΔLKM equal to side AC of ΔABC 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) chombus.
- (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

# **Maths Question Paper For Class Cbse Sa22**

**Abhijit Debnath** 

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