

CLASS IX

Session- 2022-23

Subject- Mathematics

Sample Question Paper 2

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. If $p(x) = x^2 + kx + 6$, then for what value of k, if $p(3) = 0$
(a) 2 (b) -5 (c) 3 (d) -1
2. An irrational number between $\frac{5}{7}$ and $\frac{7}{9}$ is
(a) 0.75 (b) $\sqrt{6}$ (c) 0.750750075000..... (d) 0.7512
3. $(5 + \sqrt{5})(5 - \sqrt{5})$ on simplification gives
(a) 20 (b) $2\sqrt{5}$ (c) 10 (d) 25
4. Point P(2,-3) lies on the line represented by the equation
(a) $x + 2y = 0$ (b) $2x + 2y = 0$ (c) $x + y = 1$ (d) $2x + y = 1$
5. The distance of a point (0,-3) from the origin is :
(a) 0 units (b) -3 units (c) cannot be determined (d) 3 units
6. $x = 5$, $y = -2$ is the solution of linear equation
(a) $2x + y = 9$ (b) $x + 3y = 1$ (c) $2x - y = 12$ (d) $x - 3y = 0$
7. The linear equation has $2x + 5y = 8$ has
(a) two solution (b) a unique solution (c) no solution (d) infinitely many solutions
8. In a ΔABC , if $\angle A - \angle B = 42^\circ$ and $\angle B - \angle C = 21^\circ$ then find $\angle B$
(a) 53° (b) 63° (c) 42° (d) 72°
9. The angles in a quadrilateral are in the ratio 2 :3: 6:7. The largest angle of the quadrilateral is:
(a) 40° (b) 120° (c) 140° (d) 160°
10. The diagonals AC and BD of a || gm ABCD intersect each other at the point O. If $\angle DAC = 32^\circ$ and $\angle AOB = 70^\circ$, then $\angle DBC$ is equal to
(a) 24° (b) 86° (c) 38° (d) 32°
11. In the given figure, O is the centre of a circle. If $\angle OAB = 40^\circ$ and C is a point on the circle, then $\angle ACB =$

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