

Class - X Session 2022-23
Subject - Mathematics (Basic)
Sample Question Paper

Time Allowed: 3 Hours

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 Case 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 Qs of 2 marks, 2 Qs 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	
	Section A consists of 20 questions of 1 mark each.	
SN		Ma rks
1	If two positive integers p and q can be expressed as $p = ab^2$ and $q = a^3b$; a, b being prime numbers, then LCM (p, q) is (a) ab (b) a^2b^2 (c) a^3b^2 (d) a^3b^3	1
2	What is the greatest possible speed at which a man can walk 52 km and 91 km in an exact number of hours? (a) 17 km/hours (b) 7 km/hours (c) 13 km/hours (d) 26 km/hours	1
3	If one zero of the quadratic polynomial $x^2 + 3x + k$ is 2, then the value of k is (a) 10 (b) -10 (c) 5 (d) -5	1
4	Graphically, the pair of equations given by $6x - 3y + 10 = 0$ $2x - y + 9 = 0$ represents two lines which are (a) intersecting at exactly one point. (b) parallel. (c) coincident. (d) intersecting at exactly two points.	1

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