

**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.

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

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**Terry C. Jones**



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