

## 10<sup>TH</sup> CLASS GUESS PAPER - 2022

### MATHEMATICS

#### UNIT NO. 1 : QUADRATIC EQUATION.

##### SHORT QUESTIONS.

EXERCISE: 1.1: Q.1. (iii) Q.2. (ii, iv, v) Q.3. (v, ix)

EXERCISE: 1.2: Q.1. (i), (iii), (vi), (viii)

EXERCISE: 1.3: Q.2: 7, 9, 10, 12, 14

EXERCISE: 1.4: Q.1. 9 Q.3: 8 Q.4 (iii) Q.10

MISCELLANOUS EXERCISE: 1 – Q.1, Q.2

#### UNIT NO. 2 : THEORY OF QUADRATIC EQUATION.

##### SHORT QUESTIONS.

EXERCISE 2.1: Q.1: (ii), (iv) Q.2: (i), (iv) Q.3: EXERCISE Q.4: (iii) Q.10.

EXERCISE 2.2 Q.1: 1, 4 Q.2: (ii, viii)

EXERCISE 2.3: Q.1: (i), (v), (vi) Q.2: (ii) Q. 5: (ii) Q.6: (i)

EXERCISE 2.5: Q.1: (f), (g), (h). Q.2: (b), (d), (e)

EXERCISE 2.6: Q.1: 2, 5

EXERCISE 2.7: Q.2: 5, 10, and 13

EXERCISE 2.8: Q: 1 5, 9 Q.4: 10 MISCELLANEOUS EXERCISE: 2 Q: 1: Q. 2: (i – vii)

LONG QUESTIONS:

EXAMPLE NO. 2

#### UNIT NO.3 VARIATION:

EXERCISE 3.1: Q: 1- (iv, v) Q.4-9. Q.11: (iv)

EXERCISE 3.2: Q.1: (iii) Q.2 (ii) Q.5 10, 13 Q.8: 11

EXERCISE 3.3: Q.1: (i), (iv), (vi) Q.2: (ii), (iv), (v), (vi) Q.3: (i), (iv) Q.4: (ii), (iii) Q.5:

EXERCISE 3.4: Q.1: (i), (v), (viii) Q.2: (ii), (iv), (v), (viii)

EXERCISE 3.5: Q.1: Q.3 Q.5

EXERCISE 3.6: Q.1: (iii), (ii, and vi) Q.2: (ii)

EXERCISE 3.7: Q.2: 9 Q.3: 9 MISCELLANEOUS EXERCISE 3: Q.1, Q.2

#### UNIT NO.4 PARTIAL FRACTIONS

EXERCISE 4.1 Q.2: 4, 7 Q.8

EXERCISE 4.2 Q.1 6, 8 Q.2

EXERCISE 4.3 Q.1: 6 Q.8:

EXERCISE 4.4: Q.3 6 MISCELLANEOUS EXERCISE 4 Q.1 (i – v) Q.2 (i – v)

#### UNIT NO.5 SET AND FUNCTIONS

EXERCISE 5.1 Q.1: (ii, iii, iv) Q.3: (ii, iii, iv, v) Q.4: (iii) Q.6: (ii)

EXERCISE 5.2 Q.1: (vi – viii), Q.3 Q.4 (II)

EXERCISE 5.3 Q, 1: (iii, v) Q.2: (ii) Q.4: (v)

EXERCISE 5.4: Q.5 (ii)

EXERCISE 5.5 Q.3 (ii, iii) Q.5: (iii) MISCELLANEOUS EXERCISE- 5 Q.1 Q.2

#### UNIT NO. 6 BASIC STATISTICS

EXERCISE 6.1 Q.1 Q.3

EXERCISE 6.2 Q.3 ,7 Q.11 ,12

EXERCISE 6.3 Q.4 ,Q.5 (ii) Q.7

**UNIT NO.7 INTRODUCTION TO TRIGONOMETRY**

- EXERCISE 7.1: Q.1 (ii, iii),(vii) Q.2 (ii) Q.3 (ii), (v), (vi) Q.4 (ii),(iii),(v),(viii)  
Q.5. (iii),(vii),(viii)  
EXERCISE 7.2 Q.1 (ii) Q.3 (i) Q.5 6  
EXERCISE 7.3 Q.1 (ii),(iii) Q.2. (i), (ii) Q.3 (iv),(iii) Q.4 (vi),(ii) Q.8  
Q.9. Q.12: (i), (v),(viii),(xi)  
EXERCISE 7.4 Q.7 20 Q.10, Q.11, Q.16, Q.24  
EXERCISE 7.5 Q.1 9 Q.3, Q.4, Q.8 MISCELLANEOUS EXERCISE 7 Q.1, Q.2

**UNIT NO. 8 PROJECTION OF A SIDE OF A TRIANGLE.**

- THEOREM: 2 MISCELLANEOUS  
EXERCISE: 8 Q.3: 5, 8 (EXERCISES ARE INCLUDED)

**UNIT NO. 9 CHORDS OF A CIRCLE**

- THEOREM: 2, 4 (EXERCISES ARE INCLUDED)  
THEOREM: 2, 4 MISCELLANEOUS EXERCISE 9 Q.1 (v - xiv) (EXERCISE ARE INCLUDE)

**UNIT NO. 10 TANGENT TO A CIRCLE**

- THEOREM: 1, 3 MISCELLANEOUS EXERCISE 10 Q.1 (v - xi) (EXERCISE ARE Included)

**UNIT NO.11 CHORDS AND ARCS:**

- THEOREM 1, 4 MISCELLANEOUS EXERCISE 11 Q.1 (EXERCISE ARE INCLUDED)

**UNIT NO. 12 ANGLE IN A SEGMENT OF A CIRCLE**

- THEOREM 1, 2 (EXERCISE ARE INCLUDED)

**UNIT NO. 13 PRACTIAL GEOMETRY - CIRCLE**

- EXERCISE 13.1 Q.NO. 1 Q.NO. 4 EXERCISE 13.2 Q.NO.4 Q.NO.5 EXEERCISE 13.3  
Q.NO. 9 Q.NO.10 -Q.NO.11