

Time: 2 Hours

Marks: 60

N.B.:

1. Attempt any five questions from Q. 1 to Q. 8.
2. Q. 9 is compulsory.
3. Marks are indicated against each question.

1. 'Mathematics club facilitates education and recreation.' Elaborate with reference to the importance and activities of the mathematics club. 10

2. Elucidate the importance of maxims of teaching. Illustrate any two maxims of teaching mathematics. 10

3. 'Teachers of mathematics should make consistent efforts for their continuous professional development'. Justify with reference to the need and avenues for continuous professional development. 10

4. Explain with suitable examples the inductive deductive method of teaching mathematics. 10

5. Explain any two values of teaching mathematics with examples. 10

6. Explain Becher - Biglan typology of classification of academic discipline. 10

7. What is Geogebra? How would a teacher use Geogebra in teaching mathematics? 10

8. What is pedagogical analysis? Write the instructional objectives and instructional strategies for a topic in mathematics. 10

9. Attempt briefly any two of the following: 10

- a. Nature of mathematics.
- b. Place of mathematics in the present school curriculum.
- c. Drill as a useful technique of teaching mathematics.
- d. Contribution of Ramanujan in mathematics.
