2342/M

L–8/2055

TEACHING OF MATHEMATICS

Paper–1204T/1205T

Option–(ix)

Semester–II

Time Allowed : 1½ Hours]   [Maximum Marks : 35

Note : The candidates are required to attempt **one** question each from Sections A and B carrying 12 marks each and the entire Section C consisting of 5 short answer type questions carrying 2 marks each and **one** objective type question of one mark.

SECTION—A

1. (a) Describe the concept Attainment Model, highlighting its components, steps, and importance. 6

   (b) Discuss how teachers can use the Zone of Proximal development to inform their instructional strategies and promote student learning ? 6

2. (a) Explain the laboratory method of teaching mathematics. Discuss how this method promotes problem-solving skills in mathematics highlighting its features, advantages and limitations ? 6

   (b) Discuss how proof by contradiction method of proof is used in mathematics to establish the truth of Statements ? 6

SECTION—B

3. (a) Explain the importance of a well-designed mathematics textbook in supporting student learning. Discuss the features of an effective mathematics text book. 6

   (b) Discuss the steps the teacher should take to conduct the error analysis and explain how the result can be used to inform instruction and improve student learning ? 6

4. (a) Discuss the steps the teacher should take to implement the remediation program. 6

   (b) Describe the different types of activities that can be organized by a Mathematics club ? 6

SECTION—C

5. Write short notes on the following :

   (i) Principles of Constructivist approach. 2

(ii) Problem solving method of teaching. 2

(iii) Significance of Mathematics Laboratory. 2

(iv) Steps involved in Lesson planning. 2

(v) Disproof by contradiction method. 2

(vi) Select the correct Option :

Which of the following is a key principle of effective remediation in mathematics ? 1

(a) Providing extra homework for students who are struggling ?

(b) Identifying learning gaps and providing targeted support.

(c) Using technology to provide generic math practice.

(d) Providing rewards for students who complete remediation activities ?