

BACHELOR OF EDUCATION (B.Ed.) EXAMINATION, 2025

DEPARTMENT OF EDUCATION

1st Year, 2nd Semester

Subject Code : BED 2.7a/MAT

PEDAGOGY OF SCHOOL SUBJECT–I : TEACHING OF MATHEMATICS –I

Time : Two Hours

Full Marks : 50

The figures in the margin indicate full marks.

- 1. Answer any one question within 500 words.** 12 × 1 = 12
- a. Write a lesson plan on any topic of your choice from the Mathematics syllabus for secondary level (Classes VI to VIII). 12
- b. Define an Achievement Test. Select a Mathematics topic of your choice from the secondary syllabus and construct an Achievement Test with a total of 15 marks. 2+ 10
- 2. Answer any four questions in about 250 words :** 7 × 4 = 28
- a. What is a diagnostic Test? How is a Diagnostic Test different from an Achievement Test? 7
- b. How is Mathematics correlated with other subject at the secondary level. 7
- c. Briefly describe the meaning of both a Lesson Plan and a Unit Plan. Mention their key differences. 5 + 2
- d. Define the Analysis and Synthesis methods of teaching Mathematics. Explain how these two methods differ from each other. 2 + 5
- e. Define Programmed Instruction. What are the chief characteristics of Linear Programming? 2 + 5
- f. How can the Inductive-Deductive method be effectively applied in teaching a specific Mathematics concept? Give examples. 7
- 3. Answer any five of the following in about 60 words each.** 2 × 5 = 10
- a. Mention the name of different types of objective-type tests.
- b. Write one general objective and one specific objective in the field of teaching Geometry.

- c. Mention the names of three content categories in Mathematical knowledge.
- d. Which teaching method “Inductive or Deductive” do you find more effective in Mathematics instruction? Justify your answer.
- e. State four important advantages of the Problem-Solving method.
- f. Mention the name of one Indian mathematician and his contribution.
- g. Mention four important differences between Programmed Instruction and the Traditional Method of teaching.
