No. of Printed Pages : 3

BTPE–023

INTEGRATED TEACHER EDUCATION PROGRAMME (ITEP) (BSCBED)

Term-End Examination

June, 2026

BTPE-023 : CONTENT CUM PEDAGOGY OF MATHEMATICS AT SECONDARY STAGE-COURSE III

Time : 2 Hours *Maximum Marks : 50*

***Note** : (i) All questions are compulsory.*

(ii) Questions nos. 1 and 3 carry 15 marks each.

(iii) Question nos. 2 and 4 carry 10 marks each.

(iv) Answer the question no. 1 in about 400 words and question. no. 2 and 4 in about 300 words each. For question no. 3, answer each sub-question in 100 to 150 words.

1. Explain the importance of 21st century skills in the context of mathematics education. How can mathematics teachers develop imagination and creativity among students ? Illustrate your answer with suitable examples.

Or

Explain the sociological perspectives of mathematics education. How do culture, society and classroom interactions influence learning in mathematics ?

2. Compare oral, written and practical assessment in mathematics with suitable examples.

Or

Describe the steps involved in constructing a mathematics achievement test.

3. Write short notes on any *three* of the following :

   (a) Qualities of mathematics teacher as a professional

   (b) Psychological perspectives of mathematics education.

(c) Digital storytelling for teaching of mathematics.

(d) Role of mathematics teacher in fostering divergent thinking.

(e) 360 degree assessment.

(f) Importance of spatial visualization in learning of mathematics.

4. A mathematics teacher finds that students consistently perform poorly in algebra. Design an action research plan to investigate and solve the problem.

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