

Batch - 2024-2026
Date - 03/01/2026

Sem III

Date: 03/01/2026

Paper / Subject Code: 13112 / Mathematics

EC2



[Time: Two Hours]

[Marks: 60]

Please check whether you have got the right question paper.

N.B:

1. Answer any five questions from question No. 1 to question No. 8 and question No.9 is compulsory.
2. Marks are indicated against each question.
3. Students answering in regional language should refer to in case of doubt to the main text in English.

- Q.1 Explain Becher-Biglan typology for classification of the academic disciplines. 10
- Q.2 Describe the steps of the Problem-solving method of teaching Mathematics. 10
- Q.3 "Mathematics is not only a subject but a way of thinking". Critically examine this statement with reference to the nature and values of Mathematics. 10
- Q.4 Describe the Concentric approach of curriculum construction with suitable examples from Mathematics. 10
- Q.5 "Continuous professional development is essential for Mathematics teachers." Explain this statement with reference to the need and avenues of Continuous professional development available for Mathematics teachers. 10
- Q.6 Illustrate any two maxims of Mathematics with suitable classroom examples. 10
- Q.7 "Digital tools enhance conceptual understanding when used appropriately." Elaborate with reference to the use of GeoGebra for teaching Mathematics. State its advantages and limitations. 10
- Q.8 Describe the Inductive-Deductive method of teaching Mathematics. State its Merits and demerits. 10
- Q.9 Attempt briefly any two of the following: 10
- a. Place of Mathematics in the present school curriculum
 - b. Importance of assignments in Mathematics learning
 - c. Contribution of Ramanujan to the field of mathematics
 - d. Essential characteristics of a good Mathematics textbook
