

Jamballa



Avinashilingam Institute for Home Science and Higher Education for Women
Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD [now MoE]
Re-accredited with an 'A++' Grade by NAAC CGPA 3.65/4, Category I by UGC
Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment Test II – March 2026
II SEMESTER

Class: I B.Ed. / I B.Ed. Spl. Edn.
Major: Education / Special Edn.
23BEDM12/25BDSM12 School Subject I Methods and Techniques of Teaching Mathematics

Time: 2 Hours
Maximum Marks: 60

Course outcomes:

At the end of the course, students will:

- 1 apply the micro teaching skills in teaching mathematics.
- 2 investigate the distinctive characteristics of various instructional methods suitable for teaching Mathematics.
- 3 apply appropriate techniques and methods for teaching varied context and content in Mathematics.
- 4 understand the different approaches in planning for instruction in teaching mathematics.
- 5 design different individualised instructional material for teaching mathematics.

PART – A

Choose the correct answer

6 x 1 = 6

1. This step of the Herbartian method relates new knowledge with previous knowledge
a. Preparation
b. Application
c. Generalization
d. Evaluation
CO4K2
2. A detailed plan for teaching a group of related lessons is called
a. Lesson plan
b. Unit plan
c. Yearly plan
d. Term plan
CO4K2
3. The approach where students construct knowledge through experience is called
a. Behaviourism
b. Traditional Learning
c. Naturalism
d. Constructivism
CO4 K2
4. PSI stands for
a. Personal Study Instruction
b. Programmed Study Instruction
c. Personalized Self Instruction
d. Personalized System of Instruction
CO5 K2
5. Branched programmed instruction was developed by
a. B. F. Skinner
b. Fred S. Keller
c. Norman A. Crowder
d. Thomas F. Gilbert
CO5 K2
6. Teaching according to the ability and pace of each learner is known as
a. Mass instruction
b. Individualised instruction
c. Demonstration
d. Lecture method
CO5 K2

PART – B

Answer ALL questions

3 x 6 = 18

Each answer should not exceed 400 words or Two Pages

7. a. Define a unit plan and explain the steps involved in preparing a unit plan.
(or)
7. b. Write a short note on yearly plan and term plan. CO4 K2
8. a. Discuss the Constructivist approach and its role in classroom learning.
(or)
8. b. Explain the principles of Programmed instruction and give any four differences between Linear and Branched Programmed Instruction. CO4 K4
9. a. Explain Individualised instruction and its need and importance in classroom teaching.
(or)
9. b. Write a short note on Mathematics model of instruction with an example. CO5 K2

PART – C

Answer ALL questions

3 x 12 = 36

Each answer should not exceed 800 words or Four Pages

10. a. Explain the principles, Characteristics and components of a good lesson plan.
(or)
10. b. Explain the Herbartian approach of lesson planning with an example. CO4 K2

11. a. Explain Activity Based Learning (ABL), and Active Learning Method (ALM). CO4 K4
- (or)
11. b. Describe the Personalized System of Instruction (PSI). Explain its principles, procedure and educational significance. CO5 K4
12. a. Explain Computer Assisted Instruction (CAI) as a model of individualised instruction. Discuss its features, types, advantages and limitations. CO5 K2
- (or)
12. b. Describe Linear programming and Branching programming with an example. CO5 K2

No. of Copies: B.Ed: 8 + Spl.Ed:18 = 26

Staff in-charge: Mrs. S. S. Manimozhi & Mrs. S. Andal