

Gamballa



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.
Major: Education

Time: 2 Hours
Maximum Marks: 60

23BEDP12-School Subject I- Methods and Techniques of Teaching Physical Science

Course outcomes:

At the end of the course, students will:

- 1 apply the microteaching skills in their teaching sessions.
- 2 investigate the distinctive characteristics of various instructional methods suitable for teaching physical science.
- 3 apply appropriate techniques and methods for teaching varied context and content of physical science.
- 4 understand the different approaches in planning for instruction.
- 5 design different individualised instruction modules.

PART – A

Choose the correct answer

6 x 1 = 6

1. Concept mapping was developed by CO3 K1
 - a. Jerome Bruner
 - b. David Ausubel
 - c. Joseph Novak
 - d. Jean Piaget
2. Collaborative learning emphasizes CO3 K2
 - a. Competition among students
 - b. Teacher-centered instruction
 - c. Students working together to achieve common goals
 - d. Memorization of facts
3. In the Herbartian approach, which step involves reflective thinking? CO4 K3
 - a. Preparation
 - b. Comparison
 - c. Generalization
 - d. Application
4. The teachers plan for teaching in the classroom is called CO4 K2
 - a. Unit Plan
 - b. Lesson Plan
 - c. Year Plan
 - d. Master Plan
5. Programmed Learning is based on the principle of CO5 K2
 - a. Trial and error method
 - b. Classical conditioning
 - c. Operant Conditioning
 - d. Observational learning
6. PSI (Personalized System of Instruction) is also known as CO5 K1
 - a. Keller Plan
 - b. Dalton Plan
 - c. Winnetka Plan
 - d. Montessori Method

PART – B

Answer ALL questions

3 x 6 = 18

Each answer should not exceed 400 words or Two Pages

7. a. Prepare a concept map for physical science content. CO3 K3
(or)
7. b. Explain the Buzz Session method of teaching. CO3 K2
8. a. Point out the importance of the Lesson plan. CO4 K4
(or)
8. b. How will you develop a year plan? CO4 K6
9. a. Describe Programmed Learning and its types. CO5 K2
(or)
9. b. Discuss the importance of individualized instruction. CO5 K2

PART – C

Answer ALL questions

3 x 12 = 36

Each answer should not exceed 800 words or Four Pages

10. a. Discuss the technique of Brainstorming as a teaching method. Explain its steps and educational importance. CO3 K2
(or)
10. b. Explain the principles and benefits of collaborative learning. CO3 K3
11. a. Prepare a lesson plan for physical science content based on Herbartian approach. CO4 K6
(or)
11. b. Prepare a lesson plan for physical science content based on constructivist approach. CO4 K6

12. a. Evaluate the role of computer assisted instruction in teaching of physical science. CO5 K5

(or)

12. b. Compare linear programme and branched programme with suitable examples. CO5 K4

No. of Copies: 10

Staff in-charge: Dr.U.S.E.Porkodi