



Mavin

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)
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment Test II – April 2024

SEMESTER- II

Class: IB.Ed.

Major: **Education & SplEdn.**

Max. Marks: 60

Time: 2 Hrs

23BEDP12/23BDSP12- Methods and Techniques of Teaching Physical Science

Course Outcomes

- CO1 apply the microteaching skills in their teaching sessions
CO2 investigate the distinctive characteristics of various instructional methods suitable for teaching physical science
CO3 apply appropriate techniques and methods for teaching varied context and content of physical science
CO4 understand the different approaches in planning for instruction
CO5 design different individualised instruction modules

PART – A

Choose the correct answer

6 x 1 = 6

1. The main purpose of Brainstorming is **CO3K1**
a. Generating a single solution b. Generating a wide range of ideas
c. Evaluating ideas critically d. Implementing ideas immediately
2. The concept map was introduced by **CO3K1**
a. Carl Jung b. B.F. Skinner c. E.L. Thorndike d. Joseph D Novak
3. In the Herbartian approach, which step involves reflective thinking? **CO4K1**
a. Preparation b. Comparison
c. Generalization d. Application
4. The five Es of the constructivist approach are **CO4K2**
a. Engage, Explore, Explain, Elaborate, and Evaluate
b. Engage, Explore, Explain, Elaborate, and Examine
c. Engage, Explore, Explain, Elaborate, and Estimate
d. Engage, Explore, Elucidate, Elaborate, and Evaluate
5. Programmed learning is based on the principle of **CO5K1**
a. Trial and error method of learning b. Classical conditioning
c. Operant Conditioning d. Observational learning
6. Personalized System of Instruction is also called as **CO5K2**
a. Lesson Plan b. Unit Plan c. Year Plan d. Keller Plan

PART – B

Answer ALL questions

3 x 6 = 18

Each answer should not exceed 200 words

7. a. Discuss the techniques of Brainstorming **CO3K2**
(OR)
7. b. Prepare a concept map for Physical Science content **CO3K6**
8. a. Point out the importance of the Lesson Plan **CO4K4**
(OR)
8. b. Compile the characteristics of the Unit Plan **CO4K6**
9. a. Analyze the importance of individualized instruction **CO5K4**
(OR)
9. b. Elucidate the five elements of a Personalized System of Instruction **CO5K4**

PART – C

Answer ALL questions

3 x 12 = 36

Answer should not exceed 800 words

10. a. Plan to adopt Buzz session in your teaching **CO3K6**
(OR)
10. b. Plan to adopt a Collaborative learning approach in your teaching **CO3K6**
11. a. Prepare a lesson plan for Physical Science content based on Herbartian approach **CO4K6**
(OR)
11. b. Prepare a lesson plan for Physical Science content based on the Constructivist Approach **CO4K6**
12. a. Explain the three types of Programmed Learning **CO5K4**
(OR)
12. b. Explain the modes of Computer Assisted Instruction **CO5K4**

Staff in-charge: Ms.M. Vijayalakshmi

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