



Murugan.

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

Bachelor of Education Degree Examination - July 2022

II Semester

Class: I B. Ed.

Time : 3 Hours

Max. Marks : 100

21BEDP12 School Subject I: Methods and Techniques of Teaching Physical Science

Course Outcomes:

- CO1: Apply the micro teaching 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

10 x 1 = 10

Choose the Correct Answer

- Who introduced micro teaching in India? CO1 K1
a. D.D Tiwari b. D.W Allen c. Passi d. Sarabhai
- _____ is a component of black board skill. CO1 K2
a. Extra cues b. Refocusing
c. Prompting d. Legibility
- Identify the Psychological method. CO2 K2
a. Lecture b. Project
c. Demonstration d. None of the above
- Individualized instruction recognize the _____ of each student learner. CO5 K1
a. knowledge b. uniqueness
c. both a and b d. none of the above
- Heuristic method is pure _____ method. CO2 K3
a. activity b. experience c. discovery d. play way
- Who gave project method of teaching? CO3 K1
a. William Heard Kilpatrick b. William James
c. Albert Bandura d. Carl Rogers
- Which is the technique of teaching physical science? CO3 K4
a. Inductive Method b. Deductive method
c. Brainstorming d. Graphical method
- In a constructivist classroom learning is CO4 K4
a. reflective b. collaborative
c. inquiry-based d. all the above
- Who gave the idea of lesson plan? CO4 K1
a. Fred S. Keller b. Leon Festinger
c. Erikson d. Herbert
- The founder of branching program is CO5 K1
a. Norman A crowder b. B.F Skinner
c. Wundt d. Charles

Part B

5 x 6 = 30

Answer ALL questions

Each answer should not exceed 400 words or two pages

- 11.a. Explain about micro teaching cycle. CO1 K2
(or)
- 11.b. Explain about the components of skill of reinforcement. CO1 K2
- 12.a. Describe about project method. CO2 K2
(or)
- 12.b. Discriminate inductive method from deductive method. CO2 K4
- 13.a. What is brainstorming? Why is it important? CO3 K1
(or)
- 13.b. Explain team teaching. CO3 K2
- 14.a. Relate lesson plan with the unit plan. CO4 K3
(or)
- 14.b. Interpret about year plan. CO4 K3
- 15.a. How does CAI helpful in teaching physical science? CO5 K6
(or)
- 15.b. Express your ideas about Mathetics. CO5 K6

Part C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

16. a. Write an episode for the skill of explaining. CO1 K3
(or)
16. b. Write an episode for the skill of stimulus variation. CO1 K3
17. a. Discuss about Teacher centred methods (any two). CO2 K2
(or)
17. b. Explain about student centred teaching methods (any two). CO2 K4
18. a. Explain about collaborative learning. CO3 K2
(or)
18. b. Criticize any three techniques of teaching physical science. CO3 K4
19. a. Discuss about constructivist approach. CO4 K2
(or)
19. b. Interpret about ALM in planning of instruction. CO4 K3
20. a. Discuss about linear programmed learning. CO5 K2
(or)
20. b. Discuss about Branching programmed learning. CO5 K5
