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Name.....

Reg. No.....

SECOND SEMESTER B.Ed. DEGREE EXAMINATION, APRIL 2023

B.Ed.

EDU 09.12—PEDAGOGIC PRACTICES IN PHYSICAL SCIENCE

(2017 Scheme)

Time : Three Hours

Maximum : 80 Marks

Part A

Answer all questions.

Each question carries 2 marks.

1. Write the elements of the concept "Hydrocarbons".
2. Construct any *two* multiple choice questions from the topic "Nuclear energy".
3. Give the advantages of work book.
4. List any four activities that can be conducted in science club.
5. Mention the features of Constructivism.
6. Describe Social system.
7. Enumerate the criteria to evaluate a good Physical Science textbook.
8. Point out the educational values of science parks.
9. Highlight the features of critical pedagogy.
10. How will you utilize fieldtrips for teaching Physical science ?

(10 × 2 = 20 marks)

Part B

Answer any ten questions.

Each question carries 4 marks.

11. What learning activities will you provide to develop the concept of "Total Internal Reflection" ?
12. Explain how the blueprint of a test could be prepared ?
13. Outline the behaviourist format of a lesson plan for teaching Physical Science.

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14. Describe an improvised aid for teaching a topic of your choice in Physical Science and point out the merits of improvisation.
15. What are the functions of models of teaching ?
16. How will you introduce the topic "Spherical mirrors" to X standard students ?
17. Outline the steps you may follow while teaching the concept of "Alkanes" using Concept Attainment Model.
18. Differentiate between achievement test and diagnostic test.
19. How will you construct a good matching type question ?
20. As a science teacher, how will you evaluate a science exhibition ?
21. Explain the importance of supplementary reading materials in the learning of Physical Science. Give any *two* examples.
22. Distinguish between evaluation and assessment.

(10 × 4 = 40 marks)

Part C

*Answer any two questions.
Each question carries 10 marks.*

23. How will you implement Inquiry Training Model to teach Physical Science ? Develop a lesson plan based on Inquiry Training model on any topic of your choice from Physics / Chemistry.
24. Describe the features of a good Physical Science text book for schools. Critically evaluate the present physical science textbook of Kerala state.
25. Distinguish between Pedagogic analysis and content analysis. Give content analysis of any unit in Physics / Chemistry at secondary school level.

(2 × 10 = 20 marks)