

C 61059

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Name.....

Reg. No.....

SECOND SEMESTER B.Ed. DEGREE EXAMINATION, MAY 2019

Education

Optional Course—II

EDU 09.12—PEDAGOGIC PRACTICES IN PHYSICAL SCIENCE

Time : Three Hours

Maximum : 80 Marks

Part A

Answer all questions.

Each question carries 2 marks.

1. Define model of teaching. Name the families of models of teaching.
2. Explain the meaning of pedagogic analysis.
3. Write the merits of workbook.
4. What are the limitations of objective type test items ?
5. Mention the instructional effects of Inquiry Training Model.
6. Give two learning activities you may provide for your pupils to develop the concept of "Dispersion of light".
7. Describe the importance of planning of instruction.
8. Mention the significance of science museums in the learning of physical science.
9. Point out the functions of evaluation in science teaching.
10. What are improvised aids ? Give one example.

(10 × 2 = 20 marks)

Part B

Answer any ten questions.

Each question carries 4 marks.

11. Outline the steps of content analysis with appropriate examples.
12. Explain the steps involved in the construction of diagnostic test.
13. Describe the qualities of a good science text book.
14. State how you would create awareness in your pupils about the importance of 'Green chemistry' in daily life.

Turn over

15. Write the importance of laboratory work in the learning of physical science.
16. What learning experiences will you provide to your pupils to enable them to differentiate between transverse waves and longitudinal waves ?
17. Enumerate the functions of audiovisual aids in the learning of physical science.
18. Discuss the values of organising field trips and study tours to places of scientific importance.
19. "Constructivist learning design attempts to enhance higher order thinking skills of learners". Justify.
20. How will you select and purchase the apparatus and chemicals for the science laboratory ?
21. Write any two home assignments you may give after teaching Electromagnetic induction for promoting creative thinking of learners. Give justification.
22. Describe the syntax and social system of Inquiry Training Model.

(10 × 4 = 40 marks)

Part C

Answer any two questions.

Each question carries 10 marks.

23. Explain with suitable examples, how will you implement Concept Attainment Model to teach physical science ?
24. Describe the purposes of achievement test. Explain the steps involved in the construction of achievement test.
25. How will you organise a science club in your school ? What are the important science club activities? How will you link science club activities with class teaching ?

(2 × 10 = 20 marks)