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Name.....

Reg. No.....

SECOND SEMESTER B.Ed. DEGREE EXAMINATION, MAY 2018

Education

Optional Course—II

EDU 9.12—PEDAGOGIC PRACTICES IN PHYSICAL SCIENCE

(2017 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A

Answer all questions.

Each question carries 2 marks.

1. How does a concept differ from a fact ? Give examples.
2. Mention any *two* learning activities you may suggest to your students in order to make them understand ' Scattering of light'.
3. "Essay type testing is subjective". Give reasons.
4. What are the merits and demerits of short answer type test items ?
5. Mention the nurturant effects of Inquiry Training Model.
6. Design a group activity to motivate pupils to understand the concept of the reflection of sound.
7. Point out the characteristics of achievement test.
8. List the learning outcomes of the topic 'Production of metals'.
9. Describe the meaning and importance of pedagogic analysis.
10. Mention any *four* features of a good science laboratory.

(10 × 2 = 20 marks)

Part B

Answer any ten questions.

Each question carries 4 marks.

11. What steps will you take to ensure safety in a science laboratory ?
12. Prepare four different types of objective type test items based on any topic in physical science
13. "Good lesson planning is a key to successful teaching". Discuss.

Turn over

14. How do teacher texts help teachers in the instructional process ?
15. Describe any *four* activities you will plan for the science club in your school. How will you link science club activities with class room teaching ?
16. Discuss the importance of library in the learning of physical science.
17. Give a brief account of the elements of a concept.
18. Describe the significance of teaching aids in the learning of science.
19. What are the points to be kept in mind while evaluating a debate ? Briefly discuss the educational values of debate.
20. "Learning resources from the community would help to inculcate scientific temper in students". Justify.
21. Write a short note on the construction and uses of diagnostic test.
22. Explain the importance of laboratory work in the learning of science.

(10 × 4 = 40 marks)

Part C

Answer any two questions.

Each question carries 10 marks.

23. Justify the need for planning in the teaching of physical science. Explain the objectives and types of planning.
24. Explain the syntax, social system, principles of reaction and support system of Concept Attainment Model. Describe the instructional and nurturant effects of Concept Attainment Model.
25. Develop a lesson plan based on constructivist approach of 40 minutes on any topic in Physics / chemistry at secondary school level.

(2 × 10 = 20 marks)