

C 82051

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Name.....

Reg. No.....

SECOND SEMESTER B.Ed. DEGREE EXAMINATION, JUNE 2020

B.Ed.

EDU 09.12—PEDAGOGIC PRACTICES IN PHYSICAL SCIENCE

(2017 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A

Answer all questions.

Each question carries 2 marks.

1. What do you mean by content analysis ? How is it different from pedagogic analysis ?
2. Name any *two* science journals.
3. Distinguish between concept and principle. Give examples.
4. Describe the importance of year planning in science instruction.
5. Construct two multiple choice questions based on any topic in physical science.
6. Enumerate the functions of models of teaching.
7. Point out the demerits of essay type test items.
8. Write any four learning outcomes on the topic 'hydrocarbons'.
9. List any *four* objectives of science club.
10. Name the registers to be kept in the science laboratory.

(10 × 2 = 20 marks)

Part B

Answer any ten questions.

Each question carries 4 marks.

11. Explain with suitable examples how a science teacher can make use of community based resources for teaching physical science.
12. How will you introduce a lesson on "Organic compounds" ?
13. What are the common accidents in a chemistry laboratory ? Suggest first aids for each.
14. Explain how a blueprint of an achievement test could be prepared ?

Turn over

15. Write a short note on critical pedagogy.
16. Discuss the importance of learning aids in science instruction. Describe any *one* learning aid for teaching 'Global warming'.
17. What is a hand book ? Enumerate the features and importance of hand book.
18. Describe the significance of assessment in the teaching learning process.
19. Outline the features of constructivist learning environment.
20. Explain the syntax and social system of Concept Attainment Model.
21. Describe the values of fieldtrips to scientifically important places.
22. How will you organise a science laboratory in your school ?

(10 × 4 = 40 marks)

Part C

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

23. Develop a lesson plan based on Inquiry Training Model on any topic in Physics or Chemistry.
24. What is the significance of diagnostic test ? How is it different from achievement test ? Describe the steps involved in the construction of diagnostic tests.
25. Enumerate essential qualities of a good text book in science. Examine whether the present text book in Kerala for Standard X satisfies these qualities.

(2 × 10 = 20 marks)