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(Pages : 2)

Name.....

Reg. No.....

SECOND SEMESTER B.Ed. DEGREE EXAMINATION, APRIL 2024

B.Ed.

EDU 09.11—PEDAGOGIC PRACTICES IN NATURAL SCIENCE

(2017 Scheme)

Time : Three Hours

Maximum : 80 Marks

Part A

Answer all questions.

Each question carries 2 marks.

1. Write any *two* functions of introducing a lesson.
2. List any *four* advantages of supplementary readers.
3. Give two assignments for the unit 'breathing for energy'.
4. What are the steps in Herbartian lesson planning ?
5. Suggest any *two* social issues in Kerala which can be addressed through the teaching of biology.
6. Enlist the importance of reference books in a school library.
7. What is nature rambling ?
8. List any *four* objectives of field trip in the teaching of Biology.
9. Write any *four* criteria for evaluating a project in science?
10. Give any *two* advantages of essay type test items.

(10 × 2 = 20 marks)

Part B

Answer any ten questions.

Each question carries 4 marks.

11. Explain the Bloom's Taxonomy of educational objectives of cognitive domain in detail.
12. Write suitable introduction to the following topics :
 - (a) Ecological interactions ; and
 - (b) Photosynthesis.

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13. Give suitable learning activities for the topic 'Human digestive system'.
14. What is pedagogical analysis of the content. Perform the pedagogical analysis on topic 'Structure of kidney.'
15. Briefly explain objective based evaluation.
16. Give a brief introduction about :
 - (a) Mitosis ; and
 - (b) Red Data Book.
17. What is nature calendar ? At what level it could be effectively used in learning biology ?
18. How will you prepare a PowerPoint ?
19. Give a brief outline of the steps in the construction of an achievement test.
20. Prepare four short answer type questions from standard IX Biology.
21. What test will you conduct to identify the learning difficulty experienced by students ? How will you rectify it ?
22. Enlist the process skills in science.

(10 × 4 = 40 marks)

Part C

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

23. Describe the Taxonomy of Educational Objectives in Science developed by Mc Cormack and Yager.
24. How will you organise a science club in your school ? Discuss the need and importance of science club in teaching science. Enlist any four Biology related activities for science club.

25. What do you mean by lesson planning ? Discuss the need and importance of lesson planning in the teaching of Biology.

(2 × 10 = 20 marks)