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Name.....

Reg. No.....

**SECOND SEMESTER B.Ed. DEGREE EXAMINATION, APRIL 2023**

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. What is the purpose of evaluation in school ?
2. Name two topics from (Std VIII) suitable for scientific debate.
3. Mention the criteria for selecting the objectives.
4. What are four major knowledge dimensions in Anderson and Krathwohl taxonomy ?
5. What is the role of a teacher in developing science process skills among learners ?
6. Mention any *four* indicators to evaluate assignments.
7. Give four limitations of Objective Type Test items.
8. Write the objectives under Psycho motor domain.
9. Define a Concept. Give example.
10. What is Objective Based Instruction ?

(10 × 2 = 20 marks)

**Part B**

*Answer any ten questions.*

*Each question carries 4 marks.*

11. State the broad goals of teaching Natural Science.
12. Write a matching type question on parts of nucleus.
13. What are the educational values of conducting a field trip ?

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14. "Teaching with video created a strong impact in students for learning various concepts in Biology"—Comment.
15. Suggest any *five* activities that you will plan in a science club in your school.
16. What is a diagnostic test? How is it different from a teacher made achievement test?
17. Analyse the content of the topic 'Mitosis'.
18. Define Syllabus. Highlight its role in the teaching learning process.
19. How rubrics help in the assessment of students performance? What are its advantages?
20. What are the rules to be observed in a Science Laboratory?
21. Explain the Herbartian approach in Lesson planning.

(10 × 4 = 40 marks)

### Part C

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

22. List out the four epistemological assumptions behind the constructivist approach to learning. Discuss the characteristics of a Constructivist classroom and the role of teacher and learner in these context.
23. Justify the need for planning in the teaching of Biology. Explain the types of planning -Year plan, Unit plan and Lesson plan.
24. Prepare a constructivist lesson plan based on the revised Blooms Taxonomy on any *one* of the following topics from High School Biology :
  - a) Biodiversity-Std VIII.
  - b) Structure of Nephron- Std. IX.

(2 × 10 = 20 marks)