

C 61058

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Name.....

Reg. No.....

SECOND SEMESTER B.Ed. DEGREE EXAMINATION, MAY 2019

Education

Optional Course—II

EDU 09.11—PEDAGOGIC PRACTICES IN NATURAL SCIENCE

(2017 Admissions)

Time : Three Hours

Maximum : 80 Marks

**Part A**

*Answer all questions.*

*Each question carries 2 marks.*

1. Define objective based evaluation.
2. What is diagnostic test ?
3. What is Zone of Proximal Development ?
4. Mention any *two* broad goals of teaching natural, science.
5. Point out the educational values of Science debates.
6. What are the very essential Pre-requisites for learning the concept of photosynthesis?
7. Write any *two* major concept from the topic 'pigments in plants'.
8. Give any *two* specification for the objective 'Appreciation'.
9. Define learning Out comes.
10. Name any *two* e-resources for teaching Natural Science.

(10 × 2 = 20 marks)

**Part B**

*Answer any ten questions.*

*Each question carries 4 marks.*

11. Briefly explain McCormack and Yager's classification of domains of science.
12. Explain the steps of preparing a Resource Unit.
13. Critically analyze revised Bloom's taxonomy of educational Objectives. How is it helpful for a science teacher ?
14. Elucidate the educational implications of science library.

**Turn over**

15. List down different types of test items by bringing out the merits and demerits of each.
16. Describe any *one* criteria that can be administered for the evaluation of a non-cognitive area like creativity.
17. What is Nature calendar ? At what level it could be effectively used in learning Biology ?
18. Illustrate the Psychomotor Domain of Blooms Taxonomy .
19. Distinguish between formative and summative evaluation.
20. List down the process skills in science.
21. Explain the tripolar relation between Objectives Learning Experiences and Evaluation.

(10 × 4 = 40 marks)

### Part C

*Answer any two questions.*

*Each question carries 10 marks.*

22. "Constructive classroom environment emphasizes active, collaborative and Inquiry based learning" Elucidate your views, highlighting the crucial elements of Constructivism in learning Biology.
23. What is the role of planning in teaching ? Briefly explain any one plan of instruction with its format.
24. Prepare a lesson plan based on the Constructivist format for any topic of your choice from 8<sup>th</sup> standard Biology text book.

(2 × 10 = 20 marks)