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Name.....*Libby*.....

Reg. No.....*10-1-19*.....

FIRST SEMESTER B.Ed. DEGREE EXAMINATION, DECEMBER 2018

Education

EDU 05 11—THEORETICAL BASES OF TEACHING NATURAL SCIENCE

(2017 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A

*Answer all questions.*

*Each question carries 2 marks.*

1. Define hypothesis.
2. List any *four* maxims of teaching ?
3. Draw a flow chart depicting different families of models of teaching.
4. What is collaborative learning ?
5. Write down any four objectives of teaching Natural Science with respect to NCF 2005 .
6. Do you think that link practices are necessary ? Justify.
7. Write a short note on objective based evaluation.
8. Write any *four* features of a person who possess scientific attitude.
9. Distinguish between incidental and systematic correlation.
10. Define critical pedagogy.

(10 × 2 = 20 marks)

Part B

*Answer any ten questions.*

*Each question carries 4 marks.*

11. Describe the method, which was used by scientists to explore new knowledge.
12. Explain about the different approaches of curriculum construction.
13. Explain about Lev Vygotsky's views on learning.
14. List out the process skills in Biology. Explain how you would develop these skills in your students?
15. Mention the relevance of micro-teaching as a teacher training programme.
16. Differentiate between inductive and deductive approaches.

Turn over

17. Explain the steps in Problem solving method.
18. Brain storming is one of the effective techniques for developing concepts of social relevance. Explain.
19. What are the nine unifying themes of BSCS curriculum reforms ?
20. Examine the relevance of Concept Attainment Model in learning Biological science.
21. Write about the path breaking history of any one world biologist.
22. Give a brief account about the elements of collaborative learning.

(10 × 4 = 40 marks)

### Part C

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

23. Explain the different steps involved in scientific method. Also mention how this method helps in nurturing process skills?
24. Describe about the National Goals of teaching Biology.
25. Critically evaluate any one high school Biology text book on the basis of principles of curriculum construction.

(2 × 10 = 20 marks)