

B.Ed. (CREDIT AND SEMESTER) DEGREE EXAMINATION, NOVEMBER 2019**First Semester**

EDU 104.18—UNDERSTANDING THE DISCIPLINE OF NATURAL SCIENCE EDUCATION

(2018 Admissions—Regular / Supplementary)

Time : Two Hours

Maximum : 50 Marks

Part A*Answer all questions in one or two sentences each.**Each question carries 1 mark.*

1. Serendipity helps Alexander Fleming famous to make a social change. Substantiate.
2. Write any *two* contribution of Salim Ali to the field of Avian Biology.
3. Name any *two* processes which help to develop the products like theories and facts.
4. Name any *two* topics in Biology through which any two superstitions can be removed.
5. Suggest any *two* topics in biology where curiosity can be developed.
6. Mention any *two* major Aims in teaching Biological Science.
7. Suggest any topics from biology which are examples of correlation of evolution and embryology.
8. The principle of Balanced Diet is effectively used in our kitchen. Give examples for this.
9. Name any *two* constructivist psychologists.
10. What is mean by ZPD?

(10 × 1 = 10 marks)

Part B*Answer any five questions in about half-a-page each.**Each question carries 2 marks.*

11. Name any *two* biological scientists who contribute social change and mention their contributions.
12. Mention any *two* examples of how biology remove superstitions.
13. List out any *four* contributions of MS Swaminathan on the field of agriculture.
14. Differentiate social constructivism and cognitive constructivism.
15. Name two products of science which can be obtained through the process of observation, give examples.
16. Differentiate vasectomy and tubectomy and their importance.

Turn over

(5 × 2 = 10 marks)

Part C

Answer any five questions in about one page each.

Each question carries 4 marks.

17. What is meant by bio informatics? List the concepts in this subject which illustrate the correlation of ICT and Biology
18. How can you foster creativity among your students?
19. What are communicable diseases? Explain the ways to reduce them.
20. It is not good to kill even the cockroaches. Comment on the statement.
21. Write your suggestions regarding the role of Natural Science to reduce pesticide poisons in vegetables in our food.
22. Explain how to integrate theater in Natural Science using any two topics from Biology?
23. What is the role of a teacher to develop scientific skills and process of exploration in students?

(5 × 4 = 20 marks)

Part D

Answer any one question in about four pages.

The question carries 10 marks.

24. List out the topics from secondary school syllabus to develop natural curiosity. Suggest activities to transact these topics for the same.
25. Explain the theory of Multiple Intelligence with suitable examples of each type of intelligences.

(1 × 10 = 10 marks)