

F 3459

(Pages : 2)

Reg. No.....

Name.....

B.Ed. (CREDIT AND SEMESTER) DEGREE EXAMINATION, DECEMBER 2018

First Semester

**EDU 104 18—UNDERSTANDING THE DISCIPLINE OF NATURAL SCIENCE
EDUCATION**

[Two Year Course—2018 Admission onwards]

Time : Two Hours

Maximum : 50 Marks

Part A

Answer all questions in one or two sentences each.

Each question carries 1 mark.

1. Differentiate between Molecular biology and Genetic engineering.
2. What is meant by Biostatistics ?
3. Natural science helps to reduce communicable diseases. How ?
4. Differentiate between scientific attitude and attitude toward science.
5. Mention any two experiments through which 'skill of inferring' can be developed.
6. What scientific explanation will you give for adding Ash in soil ?
7. Mention any two social issues in Kerala which can be addressed through the teaching of Biology.
8. Write any two process of science and their corresponding products with suitable examples.
9. With an example of any one topic from Human Physiology explain how correlation of Physics and Biology can be applied.
10. Suggest any two values in life that can be imported through the teaching of biology.

(10 × 1 = 10 marks)

Part B

Answer any five questions in about half a page each.

Each question carries 2 marks.

11. Differentiate attitude towards science and scientific attitude.
12. What are the objectives comes under psychomotor domain.
13. Name any two objectives and the corresponding specifications with a suitable example.

Turn over

14. Explain with an example how inferring becomes a process skill.
15. What is meant by learning outcomes give an example.
16. List out any four contributions of Alexander Fleming.

(5 × 2 = 10 marks)

Part C

Answer any five questions in about one page each.

Each question carries 4 marks.

17. Explain the role of biological science in population control.
18. We cannot correlate a biological science with the drama evaluate the statement.
19. What is the relevance of learning history of Natural Science ?
20. Natural Science is domain of enquiry. Elucidate.
21. After Higher Secondary Education, what are the different vocations available by choosing Natural Science ?
22. Explain the steps of Scientific Method.
23. Suggest examples for the uses of multiple intelligences in Biology classrooms.

(5 × 4 = 20 marks)

Part D

Answer any one question in about four pages.

The question carries 10 marks.

24. Explain the steps in scientific method using suitable experiments on Photosynthesis.
25. List out the topics from secondary school syllabus to develop natural curiosity. Suggest activities to transact these topics for the same.

(1 × 10 = 10 marks)