

**F 4599**

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Reg. No.....

Name.....

**B.Ed. (CREDIT AND SEMESTER) DEGREE EXAMINATION, DECEMBER 2016**

**First Semester**

Pedagogic Course

**EDU 104.18—UNDERSTANDING THE DISCIPLINE OF NATURAL SCIENCE  
EDUCATION**

(2015 Admission onwards [Two Year Course])

[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. Define Science in your own words.
2. Give two activities to foster scientific attitude.
3. Name an educationalist concerned with critical pedagogy.
4. Give two limitations of Science.
5. What do you mean by 'Banking Concept of Education' ?
6. Who wrote the book 'The fall of Sparrow' ?
7. Name the Scientist known for Green Revolution.
8. Give example for Kinesthetic Intelligence.
9. Define Scientific literacy.
10. Differentiate between aims and objectives.

(10 × 1 = 10 marks)

**Part B**

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

11. Differentiate between Basic science and applied science.
12. What are the broad goals of teaching Natural Science ?
13. Describe the concept of Zone of Proximal development.

**Turn over**

14. Explain the components of Scientific attitude.
15. Illustrate the implications of Behaviourism in Science learning.
16. How Science learning enhance creativity ?

(5 × 2 = 10 marks)

### Part C

*Answer any five questions in about one page each.  
Each question carries 4 marks.*

17. What are the steps of scientific method ?
18. Discuss the correlation of life science with geography and physics.
19. 'Science education is a tool to remove superstitions'—Justify.
20. Learning science through process approach is preferable to product approach—Justify.
21. Describe the contribution of Alexander Fleming and its impact on society.
22. Elucidate two situations to correlate science learning and every day problems.
23. Write the features of issue based learning.

(5 × 4 = 20 marks)

### Part D

*Answer any one question in about four pages.  
The question carries 10 marks.*

24. Distinguish between social constructivism and cognitive constructivism with suitable illustrations.
25. 'Science is objective, transparent and assumes consistency'. Substantiate with explaining dimensions of science.

(1 × 10 = 10 marks)