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(Pages : 2)

Reg. No.....

Name.....

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

**First Semester**

**EDU 104.17—UNDERSTANDING THE DISCIPLINE OF PHYSICAL 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. Define scientific literacy.
2. Mention any two differences between aims and objectives.
3. Give an example for correlation of science with Mathematics.
4. List two specifications for the objective 'understanding'.
5. Mention the fundamental branches of science.
6. Write *two* contributions of any one eminent women scientist.
7. Suggest any two merits of learning the history of science.
8. What do you mean by objective based evaluation ?
9. Mention two values of teaching physical science.
10. Give an example of an interdisciplinary science subject. What do you consider it as interdisciplinary ?

(10 × 1 = 10 marks)

**Part B**

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

11. Why should science be taught to children ?
12. Write any four characteristics of scientific temper.

15. Give any two differences between process and product aspects in science.
16. Explain the nature of science.

(5 × 2 = 10 marks)

### Part C

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

17. Write a brief note on the general aims of teaching physical science at secondary level.
18. Explain the interdependency of process and product aspect of science.
19. How can you identify a student with scientific creativity? What measures will you do to support him as a science teacher?
20. How will you foster scientific temper in your student?
21. Write a report on 'science for sustainable development'.
22. Explain the tripolar relation among objective, learning Experience and Evaluation.
23. Briefly elucidate the contributions of eminent scientist A.P.J. Abdul Kalam.

(5 × 4 = 20 marks)

### Part D

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

24. Define the types of correlation. Explain in detail the correlation of science with different branches of physical science and all other disciplines.
25. Explain in detail revised Bloom's taxonomy of educational objectives.

(1 × 10 = 10 marks)