

**F 7641**

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Reg. No.....

Name.....

**B.Ed. (CREDIT AND SEMESTER) DEGREE EXAMINATION, NOVEMBER 2017**

**First Semester**

Pedagogic Course

**EDU 104.17—UNDERSTANDING THE DISCIPLINE OF PHYSICAL SCIENCE  
EDUCATION**

(Two Year Course—2015 Admission Onwards)

[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. Write the contribution of any *one* woman scientist.
2. Write any *one* merit of learning the history of Science ?
3. Give two life skills that can be integrated with Science.
4. Why should science be taught to children ?
5. Define scientific literacy.
6. Give any *two* differences between aims and objectives.
7. Give an example of correlation of Science with languages.
8. Give any *two* learning theories that support Behaviourist style of teaching.
9. What is meant by praxis in critical pedagogy ?
10. Define objective based instruction.

(10 × 1 = 10 marks)

**Part B**

*Answer any five questions in about half a page each.*

*Each question carries 2 marks.*

11. Give an example of an interdisciplinary science subject. Why do you consider it as interdisciplinary ?
12. How does a teacher teach allotropy using cognitive constructivism ? Compare this strategy with Social constructivism ?

**Turn over**

13. List any *four* attributes of scientific attitude.
14. Give any *two* instances to substantiate that Science is a social endeavor.
15. Give *two* instances of correlating Science with life situations.
16. Give any *four* implications of Behaviorism in class room teaching.

(5 × 2 = 10 marks)

### Part C

*Answer any five questions in about one page each.*

*Each question carries 4 marks.*

17. How can you identify a student with scientific creativity ? What measures will you do to support him as a Science teacher ?
18. What is science temper ? How will you foster science temper in your student ?
19. Describe any *four* landmarks in the development of Science Education in India.
20. Give any *four* instances to illustrate that Science can be used for sustainable development
21. Define correlation, incidental correlation and systematic correlation. Give one instance of Incidental correlation and systematic correlation in Science teaching.
22. Describe Social constructivism in detail
23. Define objective and specification. Illustrate with appropriate examples.

(5 × 4 = 20 marks)

### Part D

*Answer any one question in about four pages.*

*The question carries 10 marks.*

24. Describe the tenets of Critical Pedagogy.
25. Describe the evolution of Science through ancient, medieval and modern periods.

(1 × 10 = 10 marks)