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(Pages : 2)

Reg. No.....

Name.....

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

First Semester

U 104.17—UNDERSTANDING THE DISCIPLINE OF PHYSICAL 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.

- Write any two contributions of Mendeleev.
- Give any one difference between product aspect and process aspect of teaching physical science.
- What is the difference between aims and values of teaching physical science ?
- What do you mean by evaluation ?
- List any two specifications of the objective "understanding".
- Define scientific temper.
- Give an example for correlation of science with social science.
- What is meant by competence based instruction ?
- Suggest any two interdisciplinary subject related with physical science.
- Define incidental correlation.

(10 × 1 = 10 marks)

Part B

Answer any five questions in about half a page each.

Each question carries 2 marks.

- List any four attributes of scientific attitude.
- Discuss briefly the characteristics of scientific literacy.
- Give two instances of correlating science with life situations.
- Discuss the nature of science.
- What do you mean by systematic correlation ? Give examples.
- Give any four general aims of teaching physical science at primary level.

(5 × 2 = 10 marks)

Turn over

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. Write a report on "Science for sustainable development".
19. Briefly explain the conceptual aspect of revised bloom's taxonomy.
20. Define objective and specification. Illustrate with appropriate examples from physical science.
21. Explain the tripolar relation among objective, learning experience and evaluation.
22. Elucidate the contributions of eminent scientist Stephen Hawking.
23. Explain the interdependency of product and process aspect of science.

(5 × 4 = 20 marks)

Part D

Answer any one question in about four pages each.

The question carries 10 marks.

24. Explain the new taxonomy of science education formulated by Mc Cormak and Yager and compare it with Bloom's taxonomy.
25. Prepare a lesson template for a period of 45 minutes for any topic in Physics or Chemistry.

(1 × 10 = 10 marks)