

C 32328

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Name.....

Reg. No.....

FIRST SEMESTER B.Ed. DEGREE EXAMINATION, NOVEMBER 2017

Education

EDU 05.12—THEORETICAL BASES OF TEACHING PHYSICAL SCIENCE

(2017 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A

Answer all questions.

Each question carries 2 marks.

1. Mention four maxims of teaching.
2. Give two Specific Objectives for each :
 - (a) Understanding.
 - (b) Application.
3. What are the phases of Micro teaching ?
4. Give two features of Symposium.
5. Write two aspects of cultural value of science.
6. List four processes of science.
7. Give the contribution of the following personalities to Education.
 - (a) Osborn.
 - (b) Mc Cormark and Yager.
8. What is disciplinary approach of science curriculum ?
9. Give four teacher behaviour that comes under the skill of explanation.
10. What is (a) CBA. (b) PSSC.

(10 × 2 = 20 marks)

Part B

Answer any ten questions.

Each question carries 4 marks.

11. What is objective based Instruction ?
12. Give the revised Blooms taxonomy of Anderson and Krathwohl. How is it different from Blooms original Taxonomy ?

Turn over

13. Suggest and explain a technique to develop teaching skills among preservice teachers.
14. What is correlation ? Give two examples where a science teacher can correlate the subject with other disciplines ?
15. Explain project Method.
16. "Is Science blessing or curse". How will you conduct a debate on this topic in secondary school class ?
17. Curriculum, Syllabus and Textbook are interrelated. Interpret the statement.
18. Explain problem solving method of science teaching.
19. Questioning technique is useful for developing thinking skills. Explain.
20. What is the importance of learning experience in Teaching ? Suggest any four modes of providing learning experience
21. What is an Analogy ? What are the advantages of using analogy in science class ?
22. Explain the significance of lecture cum demonstration method in Science classes.

(10 × 4 = 40 marks)

Part C

Answer any two questions.

Each question carries 10 marks.

23. What are the important teaching skills for a secondary school Science teacher ? Explain.
24. Explain the major approaches to Science Curriculum Construction.
25. Scientific Attitude and Scientific Aptitude are two essential outcomes of Science Learning. Substantiate.

(2 × 10 = 20 marks)