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Name.....
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Reg. No.....

FIRST SEMESTER B.Ed. DEGREE EXAMINATION, DECEMBER 2018

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. Give two characteristics of brain storming.
2. What is a concept map ?
3. What are the micro elements of Micro Teaching ?
4. Write two difference between curriculum and syllabus.
5. List any two emerging interdisciplinary branches of science.
6. Mention two taxonomies helpful for a science teacher.
7. Give two aspects of utilitarian value of science.
8. Write two major principles of curriculum construction.
9. Differentiate analysis and synthesis.
10. Give any four teaching techniques useful in science class.

(10 × 2 = 20 marks)

Part B

Answer any ten questions.

Each question carries 4 marks.

11. What are Mnemonics ? Give two mnemonics useful for Science learning.
12. What is Link Practice ?
13. Explain the domain proposed by McCormark and Yager for developing higher order thinking.
14. Explain the major values of teaching Physical Science.
15. Science is a process and a product. Elaborate the concept.

Turn over

16. What is Scientific Attitude ? Suggest five strategies for promoting Scientific attitude.
17. What is concentric plan of curriculum approach ?
18. What are maxims of teaching ? Briefly explain any six maxims.
19. Suggest four proposals for conducting a seminar effectively.
20. Explain Dalton Plan.
21. Briefly explain any one Digital Taxonomy.
22. How would you teach physical science by connecting with other subjects ?

(10 × 4 = 40 marks)

Part C

Answer any two questions.

Each question carries 10 marks.

23. Problem solving method is a significant method of instruction in Science classes. Elaborate the statement.
24. What is objective based Instruction? Explain Blooms Taxonomy of objectives.
25. Practicing a single skill before the peers give confidence for real class teaching. Explain a procedure for teaching skill acquisition among student teachers.

(2 × 10 = 20 marks)