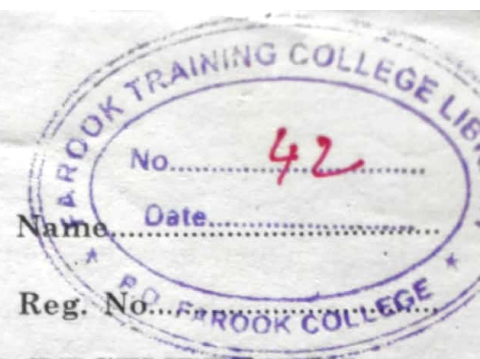


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FIRST SEMESTER B.Ed. DEGREE EXAMINATION, DECEMBER 2015

EDU 05.11—THEORETICAL BASES OF TEACHING NATURAL SCIENCE

(2015 Admissions)

Time : Three Hours

Maximum : 80 Marks

- Part — A : Answer all question, 2 marks for each question.*
Part — B : Answer any ten questions, 4 marks for each question.
Part — C : Answer any two questions, 10 marks for each question.

Part A

Answer all questions.
Each carries 2 marks.

1. What is meant by 'scaffolding'.
2. What are the advantages of pupils work book.
3. What is collaborative learning ?
4. What is brainstorming.
5. Give two merits and demerits of lecture method.
6. List out any four objectives of Nuffield science teaching project.
7. To the 'learned' deduction comes naturally, but for the learner induction is the way. Explain.
8. Give two examples for analytical diagrams.
9. What is concentric syllabus.
10. State any four issues mentioned in the KCF(2007

(10 × 2 = 20 marks)

Part B

Answer any ten questions.
Each carries 4 marks.

11. How Biology can be successfully correlated with other School subjects ? Explain.
12. Write the qualities of a person with scientific attitude. How will you develop scientific attitude among your students ?
13. Describe the fundamental principles of constructivism.
14. Explain the characteristics of a good Science text-book.
15. "The art of questioning is the very soul of teaching" comment.
16. Explain the various approaches of biological science in curriculum organization.
17. What is scientific literacy ? How can this help in the development of an individual and society as a whole.

Turn over

18. Seminars are effective instructional strategies in teaching science. Why ?
19. Explain how enquiry approach could be utilized in the teaching of biology ?
20. Mention any *five* essential requirements of a Biology laboratory.
21. What are misconceptions in science ? cite *one* example for a misconception in biology. How will, you handle this situation ?
22. Illustrate 'science as an ongoing process of enquiry'.

(10 × 4 = 40 marks)

Part C

*Answer any two questions.
Each questions carries 10 marks.*

23. Understanding the nature of discipline is of utmost importance in the transaction of curriculum. Being a teacher, substantiate this statement in terms of process and product aspect of science teaching.
24. How will you make use of various audio-visual aids as learning resources to enhance effectiveness in the teaching of Biology.
25. Explain the project method of teaching with the help of a suitable example from biology.

(2 × 10 = 20 marks)