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Name.....

Reg. No.....

No. 52

Date.....

P.O. FAROOK COLLEGE

FIRST SEMESTER B.Ed. DEGREE EXAMINATION, DECEMBER 2016

EDU 05.11—THEORETICAL BASES OF TEACHING NATURAL SCIENCE

(2015 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A

Answer all questions.

Each question carries 2 marks.

1. Select two topics from high school biology suitable for debate as a teaching method.
2. Write any *two* merits of using supplementary readers.
3. How can Bulletin board be effectively used in a class room for teaching Science.
4. Name any *two* types of project.
5. What is a concept ? give *one* example.
6. Are models better than chart for teaching biological science ? Why ?
7. Name any *two* registers to be maintained in the biology laboratory.
8. Comment on teaching science by process approach.
9. Write any *three* major features of Dalton plan.
10. What is meant by scientific literacy ?

(10 × 2 = 20 marks)

Part B

Answer any ten questions.

Each carries 4 marks.

11. Briefly explain the essential features of heuristic method.
12. Compare constructivist approach to behavioural approach in the teaching of Biology.
13. Describe the salient features of B.S.C.S.
14. What do you meant by nature of science.
15. Suggest ways to modify the lecture method so as to involve the pupils learning.
16. List down any *four* uses of teachers hand book.
17. How will you develop scientific attitude in your students.

Turn over

18. Explain inductive Vs deductive approach of teaching biology. Compare the relative merits and demerits of each.
19. Mention the implications of piaget's theory in biology teaching.
20. How is knowledge of first aid useful to a science teacher:
21. How will you conduct a brain storming session in the class room by selecting a suitable topic of your choice.
22. How is life science useful for human welfare ?

(10 × 4 = 40 marks)

Part C

Answer any two questions.

Each question carries 10 marks.

23. Integration of knowledge from various disciplines results in meaningful learning. Substantiate with suitable examples.
24. Principles are the foundations on which the curriculum is built upon. Comment. Briefly explain the principles of curriculum construction.
25. Citing a suitable example, enumerate the steps in scientific method and its significance in the teaching of Biological science.

(2 × 10 = 20 marks)