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Name.....

Reg. No.....

THIRD SEMESTER M.Ed. DEGREE EXAMINATION, DECEMBER 2017

MED 12.10—ADVANCED METHODOLOGY OF TEACHING NATURAL SCIENCE

(2015 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part I (Short Answer Type/Annotation Questions)

Answer all questions.

Each question carries 2 marks.

1. Write the advantages of guided discovery approach in Natural Science teaching.
2. What is the importance of portfolio assessment in science learning ?
3. Describe the uses of ERIC in the field of science researches.
4. Discuss the significance of project in science teaching.
5. How does co-operative learning help in science learning ?

(5 × 2 = 10 marks)

Part II (Short Essay Type questions/Problems)

Answer any eight questions out of twelve.

Each question carries 5 marks.

6. What is meant by creativity ? As a science teacher how will you provide classroom environment to foster creativity in science ?
7. Describe the advantages of Learning Management System in science teaching.
8. Explain cognitive constructivism and its bearing in teaching and learning science.
9. Evaluate the roles of Self assessment and peer assessment in a science class.
10. Discuss the relevance of BSCS in present scenario.
11. Briefly explain Fink's taxonomy of significant learning.
12. Explain the significance of concept attainment model in science learning with a suitable example.
13. Critically appraise the interface of science, technology and society.
14. Describe critical pedagogy and its bearing on science teaching and learning.
15. Describe the steps in scientific method.

Turn over

16. Discuss the role of science as a social Endeavour.
17. Evaluate the role of online learning in science

(8 × 5 = 40 marks)

Part III (Long Essay Type Questions)

Answer any two questions out of four.

Each question carries 15 marks.

18. What are the criteria for ensuring validity of science curriculum ? Explain.
19. Explain the concept of multiple intelligence and its bearing on science teaching.
20. Evaluate the vision of NCF 2005 and KCF 2007 with regard to science education.
21. 'Science is a dynamic expanding body of knowledge'. Evaluate this statement and explain the role of science teacher based on this statement.

(2 × 15 = 30 marks)