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Name.....

Reg. No.....

THIRD SEMESTER M.Ed. DEGREE EXAMINATION, DECEMBER 2018

Education

MED 12.2.09—ADVANCED METHODOLOGY OF TEACHING PHYSICAL SCIENCE

(2017 Admissions)

Time : Three Hours

Maximum : 80 Marks

I. Short Answer Type/Annotation Questions. Answer *all* questions. Each question carries 2 marks :

- 1 Define Hypothesis.
- 2 Mention any *two* criteria of a Good Science Text book.
- 3 What is Project Based Learning ?
- 4 Name any *two* Science Education Journals.
- 5 Mention the concept of Profession.

(5 × 2 = 10 marks)

II. Short Essay Type Questions/Problems. Answer any *eight* questions out of twelve. Each question carries 5 marks :

- 6 How would you develop Scientific Knowledge among your Students ?
- 7 What is Hypothetico-deductive Method ?
- 8 Explain the vision suggested by NCF 2005.
- 9 How would you integrate Co-curricular activities with Science Education ?
- 10 What is Problem Based Learning ? Give Example.
- 11 What are the resources for teaching Science in EDUBUNTU ?
- 12 Explain the need and merits of CCE.
- 13 Explain the Bruner's theory and its application to learning of Physical Science.
- 14 What are the ethical aspects of Science ?
- 15 How Creativity in Science can be developed ?
- 16 Explain the concept and importance of Professional Development.
- 17 What are the Service Conditions of School Teachers ?

(8 × 5 = 40 marks)

III. Long Essay Type Questions. Answer any *two* questions out of four. Each question carries 15 marks :

- 18 Highlight the Changing roles and responsibilities of Science Teacher.
- 19 Differentiate Constructivist Approach from Guided Discovery Approach.
- 20 Science as a Dynamic expanding body of Knowledge -Substantiate.
- 21 Discuss the Trends in Physical Science Education at National Level.

(2 × 15 = 30 marks)