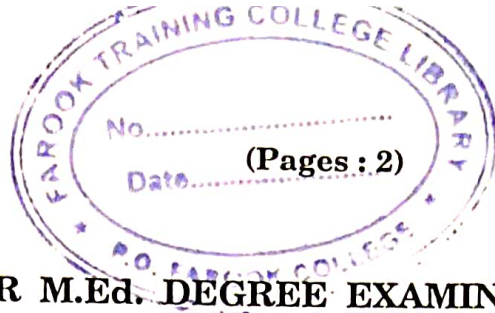


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Name.....

Reg. No.....

**THIRD SEMESTER M.Ed. DEGREE EXAMINATION, DECEMBER 2020**

M.Ed.

**MED 12.2.9—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 Name any *two* Science Education Journals.
- 2 What is Professional Ethics ?
- 3 Mention any *one* aim of EDUBUNTU.
- 4 What is impact factor of a Journal ?
- 5 What is empiricism in Science ?

(5 × 2 = 10 marks)

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

- 6 With illustration, explains induction and deduction method in Science.
- 7 Science is an ever changing concept- justify.
- 8 Explain the procedure involved in concept mapping ?
- 9 Highlight the areas in Physical Science Education in which research is needed ?
- 10 With example, explain constructivist approach in learning Science.
- 11 Describe the concept and importance of Professional development of a Science Teacher.
- 12 Explain the theory of Gagne to learning of Physical Science.
- 13 What are the ethical aspects of Science ?
- 14 What are the recommendation of NCF 2005 with regard to Physical Science Education ?
- 15 What is the need and importance of Continuous and Comprehensive Evaluation in Science ?

**Turn over**

- 16 With example, explain Project Based learning in Science.
- 17 How can we develop creativity in Science.

(8 × 5 = 40 marks)

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

- 18 Bring out the importance of Teacher appraisal and accountability ?
- 19 Discuss the method of Planning and assessment of Portfolio in Science Learning.
- 20 Discuss the recent trends in Physical Science Education at national and International Level.
- 21 Describe the nature of Science as a Body of Knowledge.

(2 × 15 = 30 marks)