

C 33261

(Pages : 2)

Name.....

Reg. No.....

THIRD SEMESTER M.Ed. DEGREE EXAMINATION, DECEMBER 2017

MED 12.9—ADVANCED METHODOLOGY OF TEACHING PHYSICAL SCIENCE

(2015 Admissions)

Time : Three Hours

Maximum : 80 Marks

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

- 1 Define corroboration and falsification in science.
- 2 What are the applications of EDUBUNDU ?
- 3 What are the major features of MOODLE ?
- 4 List the advantages of assessment of portfolios in science learning.
- 5 What is impact factor of journals ?

(5 × 2 = 10 marks)

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

- 6 Suggest some measure for sustainable development through physical science learning.
- 7 Discuss the contributions of any *two* women scientist.
- 8 How will you enhance creativity in science learning ? Illustrate with example.
- 9 Explain the scope and limitations of online learning management systems.
- 10 What are the advantages of rubrics as a tool for assessing an academic task ?
- 11 Give an overview on Flink's taxonomy of science education.
- 12 Explain the scientific and technological literacy developments in science.
- 13 Give an account on professional ethics of science teachers.
- 14 List out major criteria for selection of a text book.
- 15 Briefly explain the strategies for deformalization of science instruction.
- 16 How far 'creativity learning model' is appropriate for high school classes ?
- 17 Explain the interdisciplinary approach of curriculum design.

(8 × 5 = 40 marks)

Turn over

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

- 18 Explain Piaget's theory of cognitive growth and its importance in science education.
- 19 Critically examine the recent developments in ICT based education. Mention the various techniques of ICT that can be used in science education.
- 20 What are the educational implications of models of teaching ? Discuss the special features of hypothetic-deductive model.
- 21 Explain the relevance of the teacher appraisal and accountability as an indicator of professional development of science teacher.

(2 × 15 = 30 marks)