D 52640 (Pages : 2) Name.................................

Reg. No.............................

THIRD SEMESTER M.Ed. DEGREE EXAMINATION, DECEMBER 2018

Education

MED 12.2.10—ADVANCED METHODOLOGY OF TEACHING NATURAL SCIENCES

(2017 Admissions)

Time : Three Hours   Maximum : 80 Marks

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

1 Name two professional associations for science teacher.

2 List the uses INFLIBNET in science education.

3 What is meant by concept mapping ?

4 Write any *four* process skills in science.

5 Write a note on 'guided discovery method'.

(5 × 2 = 10 marks)

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

6 List the advantages of using simulation in science education.

7 Explain the role of reflective approach in science teaching.

8 Expound BSCS curriculum project.

9 Bring out the role of museum to science learning.

10 Describe any *four* validity criteria for science curriculum.

11 Give an account of professional development of science teachers.

12 Substantiate the role of INFLIBNET in science education.

13 Elucidate Fink taxonomy of significant learning.

14 Write short note on the role of CCE in assessment of Science education.

15 Describe interest inventories.

Turn over

16 Briefly explain rubrics and its utilization in academic task assessment.

17 Justify the role of ERIC in science research.

(8 × 5 = 40 marks)

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

18 Describe Bloom's revised taxonomy of educational objectives.

19 Elucidate the various techniques and tools used to elicit the co-scholastic assessment in science.

20 Illustrate inquiry training model with reference to science education.

21 Bring out the vision of KCF 2007 to science curriculum.

(2 × 15 = 30 marks)