D 33130

362084

(Pages : 2)

Name...............................

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

THIRD SEMESTER M.Ed. DEGREE EXAMINATION, DECEMBER 2022

M.Ed.

MED 12.2.10—ADVANCED METHODOLOGY OF TEACHING NATURAL SCIENCE

(2017 Scheme)

Time : Three Hours
Maximum : 80 Marks

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

1 Mention any *two* common misconceptions of pupils about the nature of science.

2 Give a short note on flipped learning.

3 Give a brief note on integrative approach.

4 What is portfolio of science learning ?

5 What is Greenhouse ?

(5 × 2 = 10 marks)

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

6 Science as a dynamic expanding body of knowledge-comment.

7 'Science and Technology complement each other' - justify this statement with example.

8 What is STEM Education ? What is its relationship with 21st century skills ?

9 Discuss the six criteria suggested by NCF 2005 for validate science curriculum.

10 Give a note on Nuffield Science Project.

11 Give a short note on (i) Constructivist strategies ; and (ii) Discovery approach.

12 What is concept mapping method of teaching ? What are the steps involved in concept mapping ?

13 What are the phases of concept attainment model ? Writes its instructional and nurturant effects.

14 Enumerate the six aspects of Fink's taxonomy of significant learning.

Turn over

15 What is co-scholastic assessment? How do you use check list and inventories for coscholastic assessment?

16 What are the benefits of going to a Science Museum?

17 Write a note on Consortium for Educational Communication-UGC.

(8 × 5 = 40 marks)

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

18 Why science is a social Endeavour? Explain with example.

19 Elaborate the vision suggested by NCF 2005 with regard to science curriculum.

20 Write the syntax of inquiry training model. How can you effectively use this model for science teaching?

21 What is Portfolio? Explain the stages in implementing portfolio assessment.

(2 × 15 = 30 marks)