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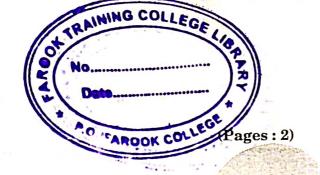
THIRD SEMESTER M.Ed. DEGREE EXAMINATION, DECEMBER 2021

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   What is meant by scientific explanation ?

    2   What is meant by brain-based learning ?

    3   Differentiate co-operative and collaborative learning.

    4   Write any *two* uses of peer assessment.

    5   Give a brief note on ERIC.

(5 × 2 = 10 marks)

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

    6   Differentiate the following vocabulary terms in science - terms and concepts, hypotheses, principles, theories and laws.

    7   Science as a social endeavour—Comment.

    8   What are the common misconceptions of pupils about the nature of science ?

    9   What does BSCS stand for in Education ? Explain 5E instructional model.

    10   What is the importance of scientific enquiry as given in KCF 2007 ?

    11   What is the importance of field trips in a well-rounded education ?

    12   Briefly explain the components of models of teaching ?

    13   What is the importance of Bloom's taxonomy of educational objectives ? What are six levels revised version of Bloom's Taxonomy.

    14   What are the key benefits of CCE ?

    15   Highlights the advantages of using rubrics as assessment tool for academic task.

Turn over

16 Define ICT integrated pedagogy. How do you use Blogs in natural science teaching ?

17 What is the importance of professional development for teachers ?

(8 × 5 = 40 marks)

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

18 Elaborate new trends in science education.

19 What is guided discovery method ? Describe the steps necessary in developing successful guided-discovery problems.

20 Describe the various tools and techniques for continuous evaluation and terminal evaluation.

21 Substantiate how various ICT resources can effectively be used for natural science teaching.

(2 × 15 = 30 marks)