FIRST SEMESTER B.Ed. DEGREE (REGULAR/SUPPLEMENTARY) EXAMINATION, NOVEMBER 2020

B.Ed.

EDU 05.11—THEORETICAL BASES OF TEACHING NATURAL SCIENCE

(2017 Syllabus Year)

Time : Three Hours   Maximum : 80 Marks

Part A

Answer all questions
Each question carries 2 marks.

1. Define *'Scientific Attitude'*. Mention any *one* feature of it.

2. Mention the role of a teacher in *Project Method*.

3. What are *Core Teaching Skills* ? Give two examples.

4. What is *'Hidden Curriculum'* ? Give one example.

5. Write any *two* applications of Science in our daily life.

6. What do you mean by *Maxims of Teaching* ? Give one example.

7. Mention any *four* objectives of NCF (2005).

8. Write any *four* principles of Curriculum construction.

9. List out any *two* drawbacks of *Lecture Method*.

10. Define Issue *Based Learning*. Suggest any *two* Issues towards it.

(10 × 2 = 20 marks)

Part B

Answer any ten questions.
Each question carries 4 marks.

11. Briefly explain the concept of *Critical Pedagogy*.

12. What is *'Social Constructivism'* ? Briefly explain the theory of *Lev Vygotsky*.

Turn over

13. Explain the following teaching techniques :

    (a) *Debate* ; and (b) *Seminar*.

14. What is *Micro-Teaching* ? Explain the Micro-Cycle.

15. What is *Scientific Literacy* ? How will you *promote* scientific literacy in society ?

16. Briefly explain the *Objectives* of Science teaching proposed by *KCF (2007)*.

17. Briefly discuss the *Role* of a *Science Teacher* in the present era.

18. *"Science is both a Process and a Product"*—Comment on it.

19. Distinguish between *Inductive* and *Deductive* approaches in learning. Explain with suitable examples.

20. Briefly explain the various steps in *Problem Solving method*.

21. Explain any *four Landmarks* in the field of Science.

22. What is *BSCS* ? Explain the three versions of Text Books suggested by BSCS.

(10 × 4 = 40 marks)

Part C

Answer any **two** *questions.*
Each question carries 10 *marks.*

23. Define *Curriculum*. Explain the major *Principles* of constructing a suitable *Science curriculum*. Discuss the *relevance* also.

24. What are *Teaching Models* ? Explain the components of *Concept Attainment Model* with a suitable example from your subject. Mention the *relevance* of this model in the present context.

25. Explain the concept of *Correlation* in teaching *Biology* with suitable examples. Discuss the merits of this approach.

(2 × 10 = 20 marks)