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Name.....

Reg. No.....

308692

FIRST SEMESTER B.Ed. DEGREE EXAMINATION, NOVEMBER 2022

B.Ed.

EDU 05.11—THEORETICAL BASES OF TEACHING NATURAL SCIENCE

(2017 Scheme)

Time : Three Hours

Maximum : 80 Marks

Part A

Answer all questions.

Each question carries 2 marks.

1. List out any *four* attributes of a person having scientific attitude.
2. State the significance of link practice in pre service training of teachers.
3. What is advance organiser ?
4. Define Concept. Give an example.
5. Write any *four* features of science debate.
6. What is collaborative learning ?
7. Briefly describe discovery approach.
8. What is meant by critical pedagogy ?
9. Enlist any four drawbacks of present day High School curriculum.
10. What is hidden curriculum ?

(10 × 2 = 20 marks)

Part B

Answer any ten questions.

Each question carries 4 marks.

11. Write a short note on science education envisaged in NCF 2005.
12. Science is both process and product. Explain.
13. Define models of teaching. Explain the families of Models of Teaching.
14. What is micro teaching cycle ?

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15. Explain Brainstorming technique ?
16. Compare Role play and Simulation.
17. Briefly describe Problem Solving Method of teaching.
18. How can you correlate the teaching of Biology with Physics ?
19. What are the principles to be followed while framing curriculum for Biological Science at Secondary School level.
20. Compare and contrast the three versions of BSCS curriculum.
21. Knowledge about students' probable misconceptions and preconceptions is necessary for a science teacher. Substantiate.
22. Explain two discoveries in Biology that made remarkable social change.

(10 × 4 = 40 marks)

Part C

Answer any two questions.
Each question carries 10 marks.

23. Describe the basic elements of Advance Organiser Model.
24. "A project is a whole-hearted purposeful activity proceeding in a social environment". In the light of this statement explain the various steps involved in project method. What are the advantages and limitations of this method ?
25. Distinguish between Social Constructivism and Cognitive Constructivism. What are the underpinning theories of Constructivism ?

(2 × 10 = 20 marks)

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