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Ph.D. PRELIMINARY QUALIFYING EXAMINATION, DECEMBER 2021

Education

Paper II—CONTEXTUAL TEACHING AND LEARNING OF SCIENCE

Time : Three Hours

Maximum : 70 Marks

Section A

Answer any **two** *questions.*
Each question carries 15 marks.

1. Explain the aims of science education.

2. Describe the project method and problem solving method of teaching science.

3. Briefly explain the relevance of constructivism in the 21st Century teaching learning process.

4. Explain the various science process skills that can be adopted for teaching science.

(2 × 15 = 30 marks)

Section B

Answer any **eight** *questions.*
Each question carries 5 marks.

5. Explain the laboratory method in science teaching.

6. Write a short note on revised Bloom's taxonomy.

7. Describe the different values that can be developed through science teaching.

8. Explain objectives of teaching science at secondary level.

9. Distinguish between expository approach and discovery approach

10. Discuss the nature of science as a process and product.

11. Differentiate between attitudinal domain and application domain.

12. Write a short note on contextual teaching and learning.

13. Briefly explain the taxonomy of science teaching by Mc Cormac and Yager.

14. Write a short note on theory of multiple intelligence.

15. Distinguish between co-operative and collaborative learning.

16. What are the different types of inquiry approaches that can be adopted in science teaching ?

(8 × 5 = 40 marks)