QP CODE: 221200052A

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Reg No : .....

Name : .....

B.Ed DEGREE REGULAR/SUPPLEMENTARY EXAMINATIONS, SEPTEMBER 2022

Second Semester

BACHELOR OF EDUCATION

PEDAGOGIC COURSE - EDU204.17 - PEDAGOGICAL DIMENSIONS OF PHYSICAL SCIENCE

2018 Admission Onwards

F4E3894D

Time: 2 Hours Max. Marks : 50

Part A

*Answer **all** questions*

*Each question carries **1** mark.*

1. Mention any two types of intelligence suggested by Howard Gardner.
2. Define ZPD.
3. What do you mean by lesson planning?
4. Define a diagnostic test.
5. What is remedial instruction?
6. Who introduced the concept pedagogical content knowledge?
7. Give an example for TPACK.
8. List any two uses of convex mirrors.
9. State Boyle's Law.
10. What is isothermal process?

(10×1 = 10)

Part B

*Answer any **five** questions in about **half a page***

*Each question carries **2** marks.*

11. What are the educational implications of behaviourism in science teaching at secondary level?

12. List the steps in Herbartian lesson planning.

13. What is the purpose of preparing marking scheme?

14. List four merits of short answer type test items.

15. Briefly explain the role of a teacher as techno pedagogue.

16. Distinguish between green energy and brown energy using suitable examples.

(5×2 = 10)

Part C

*Answer any **five** questions in about **one or two pages***

*Each question carries **4 marks.***

17. Is there any significance for Piaget's cognitive constructivism in teaching science at secondary level? Justify.

18. Explain preconceptions and misconceptions in Physical Science with example.

19. Explain the importance of teacher evaluation.

20. Give an example of a student self-assessment tool and illustrate its use in detail.

21. Explain how a science teacher can incorporate technology into classroom teaching using suitable examples?

22. How colloids differ from true solution? Suggest a learning activity to generate this knowledge among eighth standard students?

23. Explain the concept of isotopes with suitable examples.

(5×4 = 20)

Part D

*Answer any **one** question in about **three or four pages.***

*Each question carries **10** marks.*

24. What is Critical Pedagogy? Describe the tenets of critical pedagogy in detail. Discuss the role of the Science Teacher in facilitating critical pedagogy with an example from Physical Science.

25. What is unit plan? With any suitable example from Physical Science explain the steps in planning a unit.

(1×10 = 10)