

**B.Ed Degree (Credit & Semester) Examination, NOVEMBER 2020****Second Semester**

B.Ed Degree

**PEDAGOGIC COURSES - EDU204.17 - PEDAGOGICAL DIMENSIONS OF PHYSICAL SCIENCE**

2018 Admission Onwards

C5358B13

Time: 2 Hours

Max. Marks : 50

**Part A***Answer all questions**Each question carries 1 mark.*

1. Give any two implications of social constructivism.
2. What is critical pedagogy?
3. Define lesson plan.
4. Define a blueprint.
5. What is the purpose of remedial teaching?
6. Who introduced the concept pedagogical content knowledge?
7. Write any two ways to incorporate technology into science teaching.
8. Define surface tension.
9. Give one activity assignment for the topic 'work'.
10. What is meant by Tyndall effect?

(10×1 = 10)

**Part B***Answer any five questions in about half a page**Each question carries 2 marks.*

11. Explain visual-spatial intelligence.
12. Why group learning is very important in teaching – learning of Physical Science?



13. What is the importance of diagnostic test?
14. List the methods used for teacher evaluation.
15. Differentiate between TPK and TCK.
16. What is allotropy? List any two crystalline allotropes of Carbon

(5×2 = 10)

### Part C

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

Each question carries **4** marks.

17. Discuss the essential features of behaviourism.
18. Explain the different steps involved in the Herbartian approach of lesson planning.
19. Explain different types of test items and its merits.
20. Give an example of a student self-assessment tool and illustrate its use in detail.
21. Twenty first century teacher should be a techno-pedagogue. Substantiate.
22. Accidents related to electricity is much high in Kerala. As a Physical Science teacher what precautions will you suggest to avoid electric shock.
23. Give the learning experiences you may select to teach classification of hydrocarbons.

(5×4 = 20)

### Part D

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

Each question carries **10** marks.

24. What is cognitive constructivism? Explain its implications in teaching science at secondary level.
25. Develop a unit plan on any unit from Physical Science at high school level.

(1×10 = 10)