

PEDAGOGY OF PHYSICAL SCIENCE

Question Bank for Semester -I

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Unit - 1 Aims & Objectives of Teaching Physical Science.

5 Marks

1. Write the nature and the scope of Physical Science .

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2. Mention the Aims of Teaching Physical Science in schools.

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3. What are the need and significance of teaching Physical Science?

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4. What are the objectives of Teaching Physical Science?

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5. Write the values of Teaching Physical Science ?

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6. Answer in detail Aims and Objectives of Teaching Physical Science in schools?

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7. Describe Benjamin Blooms Taxonomy of Educational Objectives.

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8. Explain Revised Blooms Taxonomy.

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Unit-2 Teaching Skills

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9. Write the difference between micro teaching and macro teaching.

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10. Explain the Micro Teaching Cycle.

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11. Define microteaching and its characteristics.

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12. Describe Skill of Stimulus Variation.

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13. Write a link lesson episode for 7th standard Physical Science.

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14. Discuss the skill of Introduction.

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15. Describe the following skills;

I) Skill of Reinforcement.

ii) Skill of Questioning.

iii) Skill of Explanation.

iv) Skill of using blackboard.

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iv) □□□□□□□□□□□ □□□□□□□□□□□□ □□□□□□.

16. Write the major steps in teaching a link lesson.

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17. Write a model micro lesson for standard 9th science.

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Unit -3 Approaches of Teaching Approaches of Teaching

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18. Define a lesson plan write the need and importance of lesson plan.

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19. Write the difference between Unit Plan and Lesson Plan.

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20. Answer in brief reflective level of teaching also its merits and demerits.

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21. Explain the steps followed to prepare a lesson plan.

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22. Explain in detail Memory level of Teaching also mention its merits and demerits.

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23. Answer in brief Understanding level of Teaching also mention its merits and demerits.

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24. Describe the structure of a four fold lesson plan.

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25. Describe Herbartian Steps .

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UNIT - IV

Methods of Teaching Physical Science

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Five Mark Questions:

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1. Explain about the demonstration method of teaching.

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2. Elucidate the self-learning with its importance.

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3. Describe the investigatory approach.

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4. Give a brief account on experimental learning.

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5. Explain about the Keller plan.

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6. List out the differences between Activity Based Learning (ABL) and Active Learning Method (ALM).

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7. Give an account on concept map and its types with examples.

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Ten Mark Questions.

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1. Define team teaching. Explain its types in detail.

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2. What is programmed instruction? Enumerate its principles, characteristics, phases, advantages and disadvantages.

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3. Write an essay about collaborative learning.

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4. Give an account on Computer Assisted Instruction (CAI). Explain the need, types and uses of CAI.

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5. Describe the project method with its principles, steps, merits and demerits.

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6. Elucidate about Activity Based Learning (ABL) method in detail.

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UNIT - V

Instructional Media

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Five Mark Questions:

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1. Elucidate various kinds of instructional media with their need in classroom instruction.

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2. How print resources can be used for teaching physical science?

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3. Write a note on Tele-conferencing. Explain its types and advantages.

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4. Give an account on communication satellites and their usage in instruction.

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5. What is blended learning? Enumerate its objectives and uses.

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6. Explain about the Artificial Intelligence. How it is applied in teaching?

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Ten Mark Questions:

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1. Write an essay about Computer Networking.

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2. Describe the Flipped Classroom and its advantages.

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By

Assistant Professor.