

**B.Ed. Examination, 2019**  
**Semester-II**  
**Course : B.Ed. 124**  
**Pedagogical Knowledge of School Subject A : Physical Science**

**Time : 3 Hours**

**Full Marks : 70**

**Questions are of value as indicated in the margin.**

**Group -A**

Answer **any two** questions:

15×2=30

1. What is the 'Project Method' for the teaching of Physical Science? Explain your answer by taking a topic from Physics or Chemistry as an example. Discuss its merits and demerits. 3+8+4
2. What are the aims and objectives of teaching Physical Science in Secondary School? What points are to be kept in view by a teacher so as to realize these aims. 10+5
3. Write a lesson plan of 40 minutes duration on any one of the following topic mentioning the class for which it is intended. 15  
a) Heat and temperature b) Rusting c) Laboratory Preparation of Hydrogen gas  
d) Dalton's Atomic Theory.
4. Write a 'Unit Plan' on any one of the following topic mentioning the class for which it is intended. 15  
a) Air b) Water c) Matter d) Carbon dioxide

**Group-B**

5. Attempt **any six** of the following : 5×6=30
  - a) Describe the construction of an improvised Physical Science apparatus and mention its use in a classroom demonstration. 3+2
  - b) Describe the simplest but most Convenient Science laboratory that you would have in a Secondary School at the least expense. 5
  - c) "Creative activities of the learners can be fostered through a course of Physical Science in Secondary Schools"- Justify the statement. 5
  - d) Illustrate the 'Problem Solving' method with reference to any topic from Physics or Chemistry. 5
  - e) What is C.A.I? What is the role of Physical Science teacher in C.A.I? 1+4
  - f) Discuss Science-Teaching-Society movement in connection with teaching Physical Science in Secondary School. 5
  - g) Briefly discuss Gurudeva's perspective for planning an effective lesson of Physical Science. 5
  - h) Briefly discuss the Physical Science curriculum of Secondary level. 5

**Group-C**

6. Attempt all the questions : 2×5=10
    - a) Explain Science club as an educational device.
    - b) Describe the importance of excursion in Physical Science teaching.
    - c) Discuss briefly the role of 'Science Bulletin Board' for teaching Physical Science.
    - d) Mention two important relations between Physical Science and Music.
    - e) Mention two differences between scientific method and scientific fact.
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