TEACHING OF PHYSICAL SCIENCE

SECTION A

LONG QUESTIONS

1. **Discuss the impact of physical science and technology on our modern living and globalization. Write the effect of globalization on modern living.**
2. **Define globalization. Write the effect of globalization on modern living.**
3. **Discuss the correlation of physical science with other school subjects and daily life.**
4. **Discuss Bloom's taxonomy of educational objectives.**
5. **What are instructional objectives? Discuss their relationship with general aims and objective in relation to physical science teaching.**
6. **Discuss in detail general objective of teaching physical science at secondary level.**
7. **Explain the meaning of curriculum. Critically analyze the physical science curriculum of 10^{th} class (CBSE).**
8. **Elaborate the main principles of curriculum construction.**
9. **What is the difference between syllabus and curriculum? Justify the place of physical science in school curriculum.**
10. **What do you mean by taxonomy of educational objectives? Discuss in detail the taxonomy provided in cognitive domain.**
11. **Write five instructional objectives of knowledge, understanding, application, objectives of following topics.**
    (i) Heat (ii) Photosynthesis (iii) Solar system.

12. **Differentiate between :**

(i) Aims & objectives of teaching physical Science.

(ii) Instructional objectives & Specific objectives.

SECTION B

1. **Compare lecture method and lecture cum demonstration method. Which method do you think is best for teaching physical science in Indian conditions and why?**
2. **Discuss in detail Heuristic method.**
3. **Elaborate project method along with its merits and demerits.**
4. **What are the main steps involved in problem solving method?**
5. **Compare inductive and deductive approach of teaching physical science.**
6. **Discuss defects of present curriculum of physical science.**
7. **"Present curriculum of physical Science is not curriculum indeed. It is just a jumbling of facts from different branches of physical science in an unorganized & unpsychological way." Comment & suggest ways to improve the curriculum.**
8. **Give merits & demerits of heuristic method. What precautions should teacher keep in mind in using this method?**

SECTION C

1. **Explain the method, which can be adopted by a physical science teacher for his professional growth.**
2. **Discuss the qualifications and qualities of physical science teacher**
3. **Explain the meaning of scientific attitude. Discuss the role of physical science teacher in the development of scientific attitude among students.**
4. **Discuss the principles for selection of teaching aids.**
5. **Give classification of A-V aids. Discuss the role of chalkboard and overhead projectors in teaching physical science.**
6. **Give merits and demerits of use of chart, models, educational films and computers in teaching physical science.**

7. **What is the importance of physical Science Textbook?**
8. **Give the characteristics of a good physical Science Textbook.**
9. **Discuss in detail Vogel's checklist for evaluating physical science textbook.**
10. **How will you organize physical science club in your school?**
11. **Discuss the importance of Physical Science Museum?**
12. **What things will you keep in mind while organizing a physical science fair? Discuss its merits and demerits.**

SECTION D

1. **What is the need of organizing practical work in physical science?**
2. **What do you mean by improvised apparatus? Discuss the advantages of improvisation of physical science apparatus?**
3. **Give 5 examples of improvised apparatus along with merits and demerits of improvisation?**
4. **Differentiate between evaluation and examination. Discuss the defects of present system of evaluation.**
5. **Explain the characteristics of good tool of evaluation.**
6. **Compare essay type and objective type tests. Which type of tests do you think are best for evaluation and why?**
7. **Discuss the importance of lesson planning in physical science. Give characteristics of a good lesson plan.**
8. **Write main steps involved in Herbartion approach of lesson planning.**
9. **Prepare a lesson plan on any topic of biology of 9^{th} class.**