

Question Bank
TEACHING OF SCIENCE

1. What factors govern purchase of apparatus and equipment's for the science laboratory? Explain the procedures that you would adopt for the purchase of apparatus
2. Draw a laboratory plan for science teaching at secondary school stage and label it. What are the essential required in it. Also explain various laboratory safety procedures.
3. How will you maintain different stock registers in your science lab? Explain briefly.
4. Co-curricular activities add the appeal of the school and realise the creative talents and social aptitude of students." Discuss "What children most require is an abundance of opportunities for wholesome activities wisely directed? If these can be made sufficiently stimulating varied and rewarding, educative growth is inevitable." Discuss and suggest ways derive the proper results.
5. "Co-curricular activities as organized in our schools at present fail to achieve the desired aims." What suggestions will you offer to organize the activities properly?
6. Discuss the importance and place of co-curricular activities in a Secondary School.
7. Describe any three co-curricular activates which you would like to organise in a rural high school.
8. Discuss the principles that should guide the heads in assigning Responsibilities to staff member for organizing various schools activities.
9. Write an essay on Science Club and various activities of biological clubs.
10. How will you organize Science Fair and school gardening? Describe their advantages.
11. What are scientific hobbies and science quiz? How can you organise them?
12. Write about the procedure for organising excursions and seminars in science.
13. Describe the concept, importance and steps in lesson planning in science teaching.

- 14 Write about meaning of lesson plan and defined it.
15. What are the advantages of preparing lesson plans?
16. Identify the topic of your choice and class level in physics or chemistry. Develop a lesson plan for teaching the topic by:
- (a) Lecture cum demonstration
- (b) Problem solving method.
17. What are different methods of teaching science? Give the merits and demerits of each.
18. Discuss briefly the advantages and disadvantages of lecture and Demonstration method of teaching science in the schools.
19. What is the importance of Lecture Demonstration method in the teaching of science? Explain with examples.
- 20.“Essentially, the Heuristic method is intended to provide training in method: knowledge is secondary consideration”. Comment on this statement and say how far the introduction of this method is desirable for teaching science to High and Higher Secondary Class. How far lecture cum demonstration method is useful in Indian schools? What steps would you take to ensure the success of this method?
21. What do you understand by the Heuristic method in science? How far is the method applicable in the schools?
22. What value do you set upon the Assignment method of teaching Science? Why? What principles will guide you in preparing assignments and in running this system successfully in schools?
- 23“If the Almighty were in the one hand to offer me truth and, in the other search after truth, I would humbly but firmly choose search after truth.” Explain the same and write your view on the Heuristic method.
23. Huxley said, “The great end of life is not knowledge but act on.” Explain the saying and discuss the Scientific method of education to reach this end
24. Discuss the relative merits of the historical assignment and project method of teaching science at elementary and secondary stages.
25. Teaching of science may be (a) Formative, (b) Informational, (c) Both formative and informational. Which is best for the High and Higher Secondary Schools? State reasons briefly.
26. How does the lecture Method differ from Heuristic Method? Illustrate your answer with examples.

27. How could the methods of teaching bring into exercise the skills involved in planning, executing the plan and evaluating the plan in terms of results?
28. Discuss briefly different methods of teaching science. Which of these methods do you consider best suited to your school and why?
29. What do you understand by Heuristic Method of teaching science? Discuss its merits and demerits'. What/precautions should be taken by the teacher while employing Heuristic Method in teaching of science?
30. What is the difference between/teacher-centred and pupil-centred approach to teaching science? Which approach is more appropriate in teaching science in Indian schools?
31. What are different methods of teaching science ? Give the merits and demerits of each.
32. Discuss briefly the advantages and disadvantages of Demonstration method of teaching science in the schools.
33. What is the importance of Lecture Demonstration method in the teaching of science? Explain with examples.
34. "Essentially, the Heuristic method is intended to provide training in method: knowledge is secondary consideration". Comment on this statement and say how far the introduction of this method is desirable for teaching science to High and Higher Secondary Class.
35. What do you understand by the Assignment method of teaching science? How far is the method applicable in the schools?
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Illustrate your answer with examples.

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46 Prepare an unit plan on living things. Prepare a unit plan on properties of gases.

47. What are the types of evaluation, Explain briefly? What are the qualities of a good tool of evaluation?

48. What are various types of questions in evaluation .explain with examples?

49. What is the meaning or 'Continuous and Comprehensive Evaluation'? Discuss its need and importance?

50. Define CCE. Discuss its need in our educational system. .

51 Explain the meaning of Essay type tests Give its kinds/type with suitable examples

52. Explain the meaning of objective type tests Give its kinds/type with suitable examples

53. Explain the meaning of short type tests Give its kinds/type with suitable examples

54. How will you construct achievement test in science?