Unit	Essay Type	Paragraph Type	Short Answers
1		1. "Science as body of knowledge and process of enquiry" Justify.	1. How Science education brings democracy among the learners?
		2. Is it necessary for a teacher to have sound knowledge of pedagogical methods?	
		3. Explain the role of teacher in bringing democracy in the classroom while Science teaching.	
2		1. Questioning is an essential skill in the process of Science Teaching? Justify.	 What do you mean by uniqueness in leaning? Give some examples for collection type of projects related to Science.
3	 Define curriculum. Explain the principals involved in curriculum construction. Explain the recommendations of various committees like NCF, Kothari commission on Science education. Critically analyze the Science Textbook of Upper Primary and high School level based on Principles of Curriculum construction. 	1. Explain the principles involved in organizing the syllabus content.	 Define Curriculum. What are the types of curriculum? Write a short note on abroad Science curricular projects.
4.	1. With a neat sketch, explain in detail about the Edgar Dale's cone of experience in the teaching of science.		

Unit	Essay Type	Paragraph Type	Short Answers
Unit 4	 Essay Type 2. Explain in detail about the role of multi-media in the process of Teaching and Learning Science. 3. Define ICT. Explain the various tools of ICT in Science teaching. List out the importance of ICT. 	 What do infer from the term "Blended Learning" in the Science teaching. Explain the educational uses of audio broadcast and television programs. Explain the tools of ICT and its uses. Explain the role of Posters or Picture presentation in Science 	 What do you mean by e-book? Briefly explain the role of social networking in the Science teaching. With an example, write a note on "Wiki" and "Moodle." Write a note on
5	 Define Co-curricular activities. Explain the different types of Co- curricular activities involved in Science teaching. Define fieldtrip/Excursion. Explain in detail about the organizing the Science Filed trip/Excursion. 	and functions of Science Club. 2. Explain the uses of Science Library.	to your students.
6	1. Explain detail about the various precautions and safety measures in a Science Laboratory	 Write down the objectives of using laboratory in Science teaching. How will you organize the practical session in your laboratory? 	

Unit	Essay Type	Paragraph Type	Short Answers
6		 3. What are all the necessary points should be kept in mind before organizing the Laboratory session? 4. Explain the various types of accidents that take place in a Science Laboratory. 5. Explain the need for marinating various records 	 Write a note on common accident which happens in a Laboratory. List out the educational values of Science laboratory
7	 Draw and explain the structure of general Science laboratory for 34 students. With a neat sketch, explain the design and structure of Physical Science Laboratory. With a neat sketch, explain the design and structure of Physics Laboratory for the working of 24 students. With a neat sketch, explain the design and structure of Chemistry Laboratory for the working of 24 students. 		 improvised apparatus? 2. Write a short note on Science kits. 3. What do you mean by mobile Science laboratory? 4. What will be the first- aid for acid/base splash on eyes? 5. Write briefly about the several types of poisoning

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8.	1. Define evaluation. Explain in	1. Explain the concept of	1. Write a note on NTSE.
	detail about the formative and	CCE and its role in the	
	summative evaluation. List	evaluation process.	2. Differentiate test from
	down the merits and its		Exam.
	limitations.	2. Differentiate Formative	
		and Summative assessment.	3. What do you infer from
	2. Define assessment. Explain		the term "Measurement"
	the various tools of	3. Explain the Scholastic	"Assessment" and
	assessment in the teaching	and Co-Scholastic areas of	"Evaluation".
	learning process	evaluation.	
		4. Explain the concept of NTSE.	
9.	1. Explain the various tools and	1. Explain the various	1. What do you mean by
	techniques of evaluation.	methods of central	correlation study in
		tendency.	evaluation?
	2. Define evaluation. Explain		
	the steps involved in	2. Explain the term	2. Write a note on concept
	organizing a achievement test.	"Methods of	mapping.
		dispersion/Variability".	
			3. Write a note on Field
		3.Explain how grading	trip and filed diary.
		system differs from	
		conventional system of	4. Write a note on
		evaluation	interview.
		3. With suitable examples,	
		explain the types of items involved in written test.	
		involved in written test.	
		4. How Project work serves	
		as an effective tool of	
		evaluation.	
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10		1. Explain the basic	1. What are the various
		•	types of Pre-service and
		Science teacher.	In-service training
		2. Explain the need for	required for a Science
		Pre-service training for a	
		Science teacher.	

Unit	Essay Type	Paragraph Type	Short Answers
10	Explain in detail about the	3. Explain the job-ethics of	2. Define action research.
	various opportunities available	a science teacher.	
	for the professional		3. Why teacher is called as
	development of a Science	4. How will you evaluate a	a researcher?
	teacher.	Science teacher?	
		5. What do you mean by	
		Pre-service and In-service	
		training?	
		6. Explain the areas of	
		action research in an	
		educational institution.	

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