
STANDARD X

The Pattern of the Question Paper



Science and Technology Part-I and Part-II

Science and Technology Part-I and Part-2 : Nature of the Activity sheet

(A) The marks-wise distribution of questions will be as follows :

Q. 1 (A) 5 questions of 1 mark each - Total marks 5

(B) 5 questions of 1 mark each - Total marks 5

(Q. 1 B will consist of Multiple Choice Questions based on practical work and concepts from textual projects.)

Q. 2 Solving 5 out of 7 questions of 2 marks each - Total marks 10

Q. 3 Solving 5 out of 7 questions of 3 marks each - Total marks 15

Q. 4 Solving 1 out of 2 questions of 5 marks each - Total marks 5

(Questions 2 to 4 should mainly include open-ended, thought provoking questions.)

(B) Different types of questions of Q. 1 (A)

5 marks

Under this question there would be 5 different types of objective questions carrying 1 mark each.

- A. **Fill in the blanks** : Answer should be written in full sentence after appropriately filling the blanks.
- B. **Find the odd one out** : Student should choose the appropriate answer from 4 to 5 different components.
- C. **Find out the correlation** : The correlations between the two components should be determined and then write it in one sentence.
- D. **Find out the difference between the two components** : Students should find the exact difference and then write it in one sentence.
- E. **Make pairs** : For 2 components, 4 different options will be given. Students should logically think and find out the exact answer.
- F. **Right or wrong** : student has to write the answer with proper reasoning.
- G. **Write the names/molecular formula** : Molecular formulae will be asked only in Chemistry paper.

In addition to above subtypes, questions asking 'What does the figure indicate?', or 'Fill the gap in flow chart' can be asked.

Question 1 (B)**5 marks**

There will be 3 questions based on practical work/experiments and 2 questions based on project work.

(1 mark each)

Question 2**10 marks**

In question 2, any type of 7 questions given below will be asked. Out of these, only 5 have to be solved.

(2 marks each)

- A. Solve numerical problems :** Numerical problems different from, but based on those given in the lessons in the book will be asked.
- B. Write notes :** A note based on a concept of the concept understood from a figure or picture should be written.
- C. Write chemical reactions along with their equations :** The questions asking “name a chemical reaction”, “give an incomplete chemical reaction” or “give an unbalanced reaction” will be asked.
- D. Complete the flow chart :** In this type of question, an incomplete flow chart should be given with 4 to 5 blank spaces.
- E. Clarify the difference :** In this type of question a minimum of 4 differences should be pointed out between two components. These four points should be independent.
- F. Write properties/characteristics/advantages/effects :** A minimum of 4 statements are expected in such question.
- G. Give scientific reasons :** Answer should consist of the scientific reason behind an event or an activity.
- H. Complete the diagram:** Complete the diagram like an electric circuit, food chain, etc. and give explanation.
- I. Answer questions based on figures.**
- J. Write answers with explanations.**
- K. Write laws, theory and explain.**
- L. Complete the paragraph :** A minimum of 6 blank spaces will be in the paragraph with the given options, the paragraph should be completed.

Question 3**5 marks**

Any two of the following sub-questions will be included in this question.

Solve I out of 2 sub-questions (S marks each)

- A. Draw a figure and give explanation :** An accurate labelled diagram of the concept should be drawn and explained.
 - B.** A new diagram to be drawn correcting the given inaccurate one and explanation should be given.
 - C.** Classify with detailed explanation.
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- D. Read the given paragraph and answer questions based on it.** (A minimum of 5 (HOTS) questions based on the mental capability of students.)
 - E. Complete the given incomplete table,/ehart:** The incomplete table/chart should be completed and explained.
 - F. Answer the questions in detail,** For example, an activity for proving a law of properties, an experiment to verify a statement, etc. should be asked in such questions. This should include a diagram.
 - G. Make a concept diagram based on some component and give explanations.**
 - H. Give examples :** It is necessary to give 4 different examples based on some component /concept / process and clarify it. The student should be free to give examples from day to day life.
 - I.** The rules of definitions should be explained with examples.

Question 4

15 marks

These sub-questions may include any 7 out of the sub-questions given below.

Solve 5 out of 7 sub-questions (3 marks each)

- A. Give explanation using the given statements :** The concept based on at least should be written.
- B. Suggest remedies,/measures :** Questions about problems/effects related to daily life will be included in this subtype.
- C. Explanation of diagrams :** Unlabelled diagram to be labelled and explained.
- D. Complete the table/Chart :** Complete the incomplete table and given information based on that.
- E. Explain with the help of examples :** An example of a process to be given, e.g. a chemical reaction.
- F. Solve numerical problems :** Numerical problems based on the lessons with higher difficulty level. statements

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| <ul style="list-style-type: none">* 20 % weightage on portion from standard IX and there will be two separate sheet for Science-I and II each of 40 mar.s* Time provided will be 2 hours.* Separate paper on two separatedays. |
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