

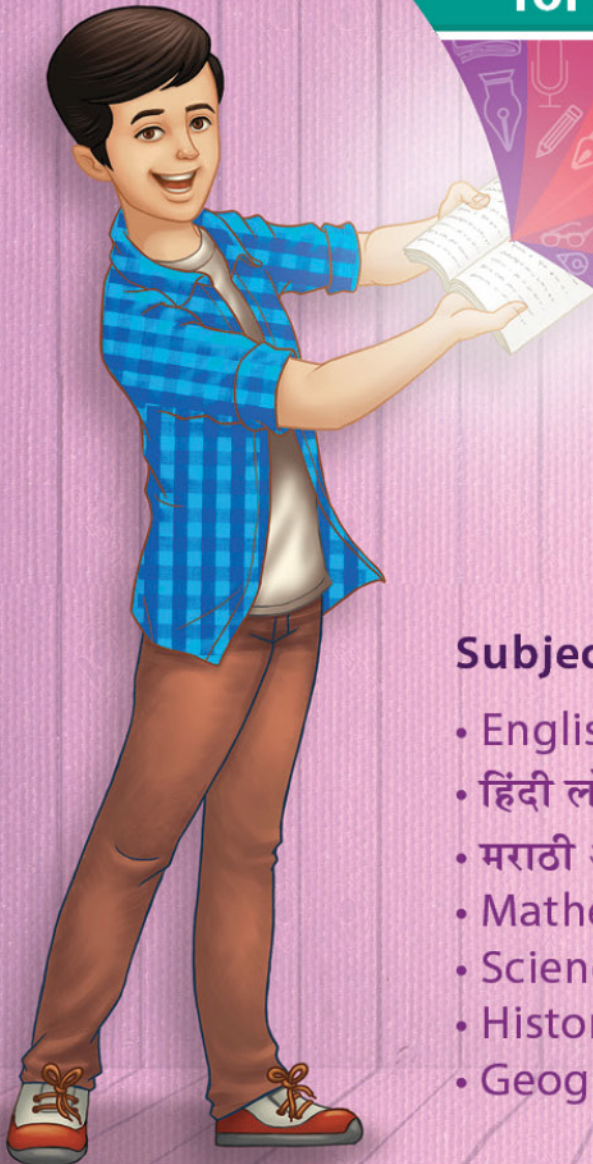
SAMPLE CONTENT

SSC 53 Question Papers & Activity Sheets With Solutions



Updated as per Reduced Syllabus
for Academic Year 2020-2021

Includes
**MARCH
2020**
BOARD PAPERS



Subjects:

- English Kumarbharati
- हिंदी लोकभारती
- मराठी अक्षरभारती
- Mathematics - I & II
- Science & Technology - I & II
- History
- Geography

**STD. X
ENGLISH
MEDIUM**

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SSC 53 Question Papers and Activity Sheets

With Solutions

Salient Features

- Created within the purview of reduced syllabus for the academic year 2020 - 2021.
- Comprises 45 Model Question Papers / Activity Sheets.
- Includes 1 Model Question Paper with solutions and 4 Additional Practice Question Papers (Model Answer Papers for the Additional Practice Question Papers can be accessed via QR Code)
- Includes March 2020 Board Question Paper of each subject (Answer paper for March 2020 Board Question Papers can be accessed via QR Code)
- Contains a Detailed Analysis of the Question Paper for better understanding of the evaluation format
- Includes 'Note' at relevant 'ouch' points to frame answers accurately

Scan the adjacent QR code to access the solutions to Model Papers and March 2020 Board Question Papers within this book through our 'Quill – The Adhai App.'



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PREFACE

SSC 53 Question Papers and Activity Sheets with Solutions is a well-designed compendium, compiled to facilitate systematic preparation for the students appearing for the S.S.C. Board Examination.

The book includes **45 Model Question Papers / Activity Sheets** across all subjects – along with their solutions. These Question Papers are in tune with the latest changes in the syllabus and are prepared based on the newly formulated paper pattern. In the light of current pandemic, the reduction of syllabus for the academic year 2020 - 2021 proposed by Maharashtra State Board of Secondary and Higher Secondary Education is taken into consideration while preparing each Model Paper. Five Model Question Papers have been meticulously put together for every subject in accordance with the curriculum of S.S.C. The **Model Answer Papers** offer a comprehensive solution for every question and ensure that the students don't encounter any problem while solving the paper.

The book also contains a **Detailed Analysis** of the Question Paper, so as to make it easy for the students to understand the latest evaluation format. 'Notes' are provided at relevant touch points in the Model Answer Papers of each subject to aid students in recognising and understanding the nature of this Examination.

The book also includes Board Question Papers of March 2020. The purpose of adding March 2020 Board Question Papers is that students must be aware of the type of questions asked in the latest Board exam. The non-evaluative syllabus for academic year 2020-21 has been marked with **R** symbol in March 2020 Question Papers.

We have also provided the details of the **reduced syllabus**, subject wise and chapter-wise in the book through a QR code below the index. This is to enable the students to understand their reduced syllabus and be better prepared for their upcoming Board Exam.

As the old adage goes, 'Practice makes a man Perfect', students will find here, a goldmine of Question Papers to practise, before they are up for their final battle. We are sure these Question Papers will prove to be extremely instrumental in achieving exemplary scores in the Board Examinations.

The journey to create a complete book is strewn with triumphs, failures and near misses. If you think we've nearly missed something or want to applaud us for our triumphs, we'd love to hear from you.

We wish the students all the best for their examinations.

Yours faithfully,

Publisher

1st Edition, Second

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Scan the adjacent QR code to download the Reduced / Non-Evaluative Portion for the upcoming board exam of academic year 2020-21.



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To see complete Test buy **Target Notes** or **Target E-Notes**



Science and Technology

Part 1

Sample Content



SCIENCE & TECHNOLOGY – Part 1 : PAPER PATTERN

- There will be separate question papers for Part 1 and Part 2 of 40 marks each.
- Duration of each paper will be 2 hours.

Question No.	Type of Questions	Total Marks
1.	(A) 5 Questions of 1 mark each (MCQs)	05
	(B) 5 Questions of 1 mark each	05
2.	(A) 3 Questions of 2 marks each (Scientific Reasoning) (Solve any 2)	06
	(B) 5 Questions of 2 marks each (Solve any 3)	06
3.	8 Questions of 3 marks each (Solve any 5)	15
4.	2 Questions of 5 marks each (Solve any 1)	05

Chapter wise weightage

Sr. No.	Chapter Name	Marks	Marks with option
1.	Gravitation	03	05
2.	Periodic classification of elements	04	06
3.	Chemical reactions and equations	04	06
4.	Effects of electric current	05	07
5.	Heat	03	05
6.	Refraction of light	05	07
7.	Lenses	04	06
8.	Metallurgy	04	06
9.	Carbon compounds	05	07
10.	Space missions	03	05
	Total	40	60

Distribution of marks according to question type and aims

Sr. No.	Question type	Marks	Marks with option	% Marks
1.	Objective	10	10	25
2.	Short answer	10	16	25
3.	Short answer	15	24	37.5
4.	Long answer	5	10	12.5
	Total	40	60	100

Sr. No.	Aims	Marks	Marks with option	% Marks
1.	Knowledge	10	15	25
2.	Understanding	10	15	25
3.	Application	16	24	40
4.	Skill	4	6	10
	Total	40	60	100



Detailed Analysis of Question Paper

Science and Technology – Part 1

Time: 2 Hours

Total Marks: 50

Note:

- All questions are compulsory.
- Answer to every main question must be written on a new page.

Q.1. (A) Choose the correct alternative.

[5]

- This question carries 5 marks. It contains 5 multiple choice type questions of 1 mark each. All questions are compulsory.
- In MCQ, students are expected to write the correct option in the answer. Example: i. (A)

Q.1. (B) Solve the following questions.

[5]

- This question carries 5 marks. It contains 5 sub-questions of 1 mark each. All sub-questions are compulsory.
 - It includes various question types such as 'Find the odd one out', 'Find out the correlation', 'Make pairs', 'True or False?' and 'Give name/molecular formula/ Identify the figure'.
 - In 'Find the odd one out', students are expected to identify the odd one out of 4 – 5 components. Students must give an appropriate explanation, only if asked in the question.
 - In 'Find the correlation/ Complete the analogy', students are expected to identify the correlation between two components and rewrite it. Students must give an appropriate explanation, only if asked in the question.
 - In 'Match the column' (2 columns), students are expected to match the contents of Column I, with those in Column II appropriately, and write the answer in a tabular format.
 - In 'Match the column' (3 columns), students are expected to match the contents of Column I, with those in Column II and Column III appropriately, and write the answer in a tabular format.
 - In 'True or false', students are expected to mention whether the sentence is true or false. Students must write the correct statement, only if asked in the question.
- If the format of the question varies from those given above, students are expected to read the question carefully and attempt it accordingly, in the appropriate format.*

Q.2. (A) Give scientific reasons. (Any Two)

[4]

- This question carries 4 marks. It contains 3 sub-questions of which any 2 are to be attempted. Each sub-question carries 2 marks.
- It includes scientific reasoning questions.
- Wherever applicable, students are expected to write answers in points for better presentation.

**Q.2. (B) Solve the following questions. (Any Three)****[6]**

- This question carries 6 marks. It contains 5 sub-questions of which any 3 are to be attempted. Each sub-question carries 2 marks.
- It includes various question types like ‘Solve numerical problems’, ‘laws/define/principles’, ‘Write a note’, ‘Complete the table / flowchart’, ‘Clarify the difference’, ‘Write properties/characteristics/ advantages/effects/uses’, ‘Write chemical reactions along with their equations’ and ‘Give examples’.
- In ‘Solve numerical problems’, students must write answer/s with correct unit/s.
- In ‘Complete the table/chart’, students are expected to fill in the blanks in the table with appropriate information and redraw the table/ flowchart.
- In ‘Give difference between’ students are expected to write minimum 4 independent differences between two components. Students may write the differences in a tabular format for better presentation.
- In ‘Give examples’, students are expected to give minimum 4 examples based on a particular concept or process.
- Wherever applicable, students are expected to write answers in points for better presentation.

In case the format of the question varies from those given above, students are expected to read the question carefully and attempt it accordingly, in the appropriate format.

Q.3. Solve the following questions. (Any Five)**[15]**

- This question carries 15 marks. It contains 8 sub-questions of which any 5 are to be attempted. Each sub-question carries 3 marks.
- It includes various question types like ‘Give explanation using given statements’, ‘Label the diagram and explain’, ‘Complete the table / chart’, ‘Solve numerical problems’, ‘Complete the diagram and explain’, ‘Answer question based on the figure’, ‘Write answers with explanation’, ‘Write laws, theory and explain’, ‘Complete the paragraph’, ‘Explain with the help of examples’, ‘Give explanation using the given statements’ and ‘Suggest remedies/measures’.
- In ‘Complete the table/chart’, students are expected to redraw the table/ flowchart and fill in the blanks with appropriate information.
- In ‘Complete the paragraph’, students are expected to rewrite the completed paragraph and underline the answers.
- Wherever applicable, students are expected to write answers in points for better presentation.

In case the format of the question varies from those given above, students are expected to read the question carefully and attempt it accordingly, in the appropriate format.

Q.4. Solve the following questions. (Any One)**[5]**

- This question carries 5 marks. It contains 2 sub-questions of which any 1 is to be attempted. Each sub-question carries 5 marks.
- It includes various question types like ‘Draw a figure and give explanation’, ‘Correct the given diagram and explain’, ‘Classify with detailed explanation’, ‘Read the given paragraph and answer questions based on it’, ‘Complete the table / chart and give explanation’, ‘Answer the questions in detail’, ‘Answer questions based on the figure’, ‘Make a concept diagram and give explanation’.

In ‘Correct the diagram and explain’ students are expected to draw a new corrected, labeled diagram and write a detailed explanation.

- In ‘Complete the given table/ chart and give explanation’ students are expected to redraw the table/ flowchart and fill in the blanks with appropriate information, and write a detailed explanation.
- Wherever applicable, students are expected to write answers in points for better presentation.

In case the format of the question varies from those given above, students are expected to read the question carefully and attempt it accordingly, in the appropriate format.



Model Activity Sheet – 1

Science and Technology – Part 1

Time: 2 Hours

Total Marks: 40

Note:

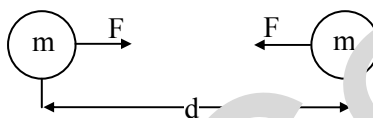
- All questions must be attempted.
- Wherever necessary draw scientifically correct labelled diagrams.
- Start every main question on a new page.
- Numbers to the right indicate full marks.
- For question No. 1 (A) MCQ marks will be given only for the first attempt.
- The answer to every MCQ should be written as indicated below.

Eg.: i. (A)

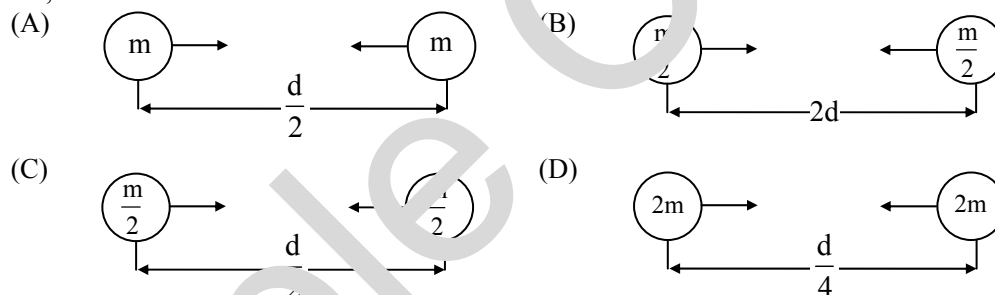
Q.1. (A) Choose the correct alternative.

[5]

- For two balls of equal masses as shown in the figure, the magnitude of gravitational force between them is F .



In which of the conditions shown in the options below, the gravitational force remains same i.e., F ?

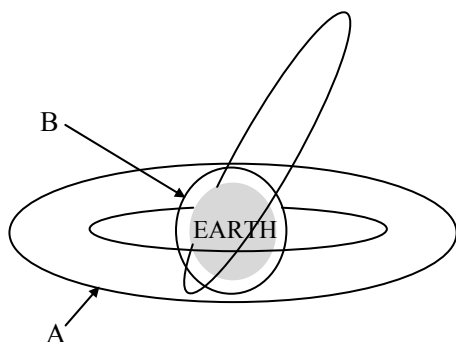


- A _____ lens always produce virtual and diminished image.
 - biconvex
 - biconcave
 - convex
 - bifocal
- In _____ appliance, Fleming's left hand rule is not used.
 - electric fan
 - mixer
 - computer
 - electric generator
- When a light ray makes an angle of 90° while entering a glass slab from air, it _____.
 - bends towards the normal.
 - goes away from the normal.
 - goes straight without bending at glass-air interface.
 - returns back into the air.
- Which gas is liberated when aluminium metal reacts with dilute hydrochloric acid?
 - Oxygen
 - Hydrogen
 - Chlorine
 - Hydrogen peroxide

**Q.1. (B) Answer the following.**

[5]

- i. Identify the terms A and B in the given diagram.



- ii. Find the odd one out and write explanation.
Sodium, Potassium, Calcium, Iron
- iii. State true or false. Rewrite the correct statement if false.
During refraction of light through the glass slab, incident ray and emergent ray are perpendicular to each other.
- iv. Match the columns.

	Column I		Column II
a.	Electric fuse	1.	Magnetic effect of electric current
b.	Electric fan	2.	Heating effect of electric current
		3.	Electromagnetic induction

- v. By considering first correlation complete the second correlation:
Gravitational constant (G) : _____ ∴ Acceleration due to gravity : m/s^2

Q.2. (A) Give scientific reasons (Attempt any 2)

[4]

- i. Geostationary satellites are not useful for studies of polar regions.
- ii. Elements belonging to the same group have the same valency.
- iii. We cannot clearly see an object kept at a distance less than 25 cm from the eye.

Q.2. (B) Answer the following. (Attempt any 3)

[6]

- i. Give any two examples of saturated hydrocarbons.
- ii. Complete the following table for the space missions undertaken by ISRO.

	Spacecraft	Mission to	Function/Achievement
ISRO	(a)	Moon	(b)
	Mangalyaan	(c)	(d)

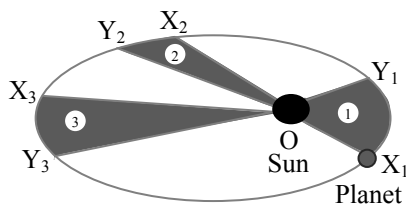
- iii. Define endothermic reaction. Give an example.
- iv. How much heat energy is necessary to raise the temperature of 10 kg of water from 40 °C to 100 °C?
- v. If the speed of light in a medium is $2 \times 10^8 \text{ m/s}$, what is the absolute refractive index of the medium? (Velocity of light in vacuum = $3 \times 10^8 \text{ m/s}$)



Q.3. Answer the following. (Attempt any 5)

[15]

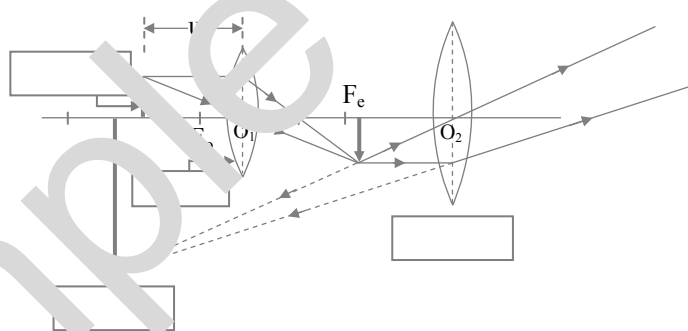
- i. The orbit of a planet is an ellipse with the Sun at one of its foci. The Sun's position is indicated as 'O'. X_1Y_1 and X_2Y_2 are the distances covered by the planet in equal time. X_1O and X_2O lines sweep equal area in equal intervals of time. Hence, areas X_1OY_1 and X_2OY_2 are equal. Also, the time taken by the planet to complete one revolution around the Sun depends on its mean distance (r) from the Sun.



- Which laws do we understand from the description given above?
 - If shaded area X_3OY_3 is n times the area from X_1OY_1 then what will be the relation between time taken by the planet to move X_1 to Y_1 , say t_1 and time taken by the planet to move from X_3 to Y_3 , say t_2 ?
 - State the law explained in the description which is used to formulate inverse square law of gravity.
- ii. Complete the following table:

No.	Reaction	Type of reaction
a.	$2\text{H}_2\text{O}_{(l)} \xrightarrow{\text{Electrical energy}} 2\text{H}_{2(g)}\uparrow + \text{O}_{2(g)}\uparrow$	_____
b.	$\text{Zn}_{(s)} + \text{CuSO}_{4(aq)} \longrightarrow \text{ZnSO}_{4(aq)} + \text{Cu}_{(s)}$	_____
c.	$\text{BaCl}_{2(aq)} + \text{ZnSO}_{4(aq)} \longrightarrow \text{BaSO}_{4(s)} + \text{ZnCl}_{2(aq)}$	_____

- iii. State and explain Newlands' law of octaves.
- iv. Study the diagram and answer the questions given below.



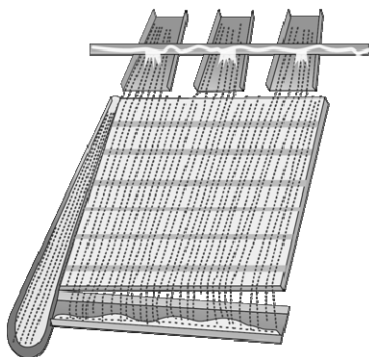
- Name the optical instrument shown in the diagram.
 - Label the diagram correctly.
 - Write the working of this instrument.
- v. Select appropriate options and complete the following paragraph:
(Ore, gangue, metallurgy, electrolysis, minerals, gold, iron, platinum)

Based on their reactivity, most of the metals are found in combined state in the earth's crust while some metals such as silver, _____ and _____ are found in free state. The compounds of metals which occur naturally in the earth's crust are known as _____. The minerals from which metals can be profitably extracted are called _____. Ores mined from earth usually contain large amount of impurities like sand, soil, etc. These impurities are called _____. The extraction of metals from their ores and then refining them for use is known as _____.

- vi. Calculate the refractive index of water with respect to glass and refractive index of glass with respect to water, if speed of light in water and glass is 2.2×10^8 m/s and 2×10^8 m/s respectively.



- vii. Label the diagram given below and explain it.



- viii. Explain the role of latent heat in the change of state of a substance.

Q.4. Answer the following. (Attempt any 1)

[5]

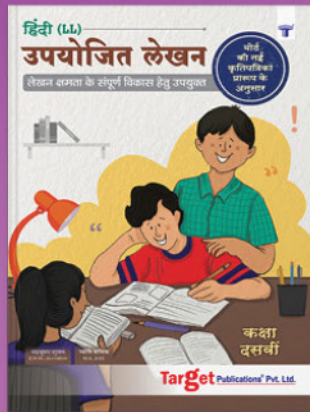
- i. When ethanol is heated at 170°C with conc. H_2SO_4 , it forms an organic compound 'A' and water. The compound 'A' reacts with hydrogen in the presence of nickel to form 'B'.
- Name the compound A and write its chemical formula.
 - Name the compound B and write its chemical formula.
 - Write the chemical equation of the reaction involved in formation of 'B' from 'A'.
 - Identify the homologous series to which A and B belong.
 - 'B' undergoes combustion in presence of sufficient amount of oxygen to release large amount of heat and light. Write its chemical equation.
- ii. Explain the construction and working of an electric motor. Draw a neat diagram and label it.



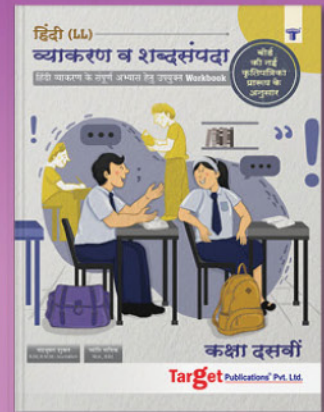
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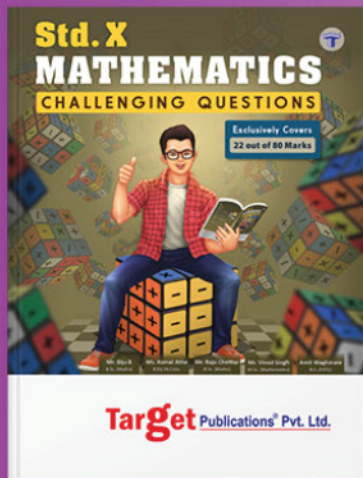
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