

SAMPLE CONTENT



SSC 53 Question Papers & Activity Sheets With Solutions

Updated as per Reduced Syllabus
for Academic Year 2021-2022

Includes
**MARCH
2020**
BOARD PAPERS

Subjects:

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

**STD. X
ENGLISH
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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 2021 - 2022.
- Comprises of 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 touchpoints to frame answers accurately

Scan the adjacent QR code to download the solutions of Model Papers and March 2020 Board Question Papers in pdf format.



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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 2021 - 2022 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 touchpoints 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 types of questions asked in the latest Board Exam. The questions based on reduced syllabus for academic year 2021-22 have 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

Edition: Second

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Science and Technology

Part 2

Sample Content



SCIENCE & TECHNOLOGY – Part 2 : 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 (Objectives)	05
2.	(A) 3 Questions of 2 marks each (Solve any 2)	04
	(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

Chapterwise weightage

Sr. No.	Name of the topic	Marks	Marks with options
1.	Heredity and Evolution	03	05
2.	Life Processes in Living Organisms Part - 1	04	06
3.	Life Processes in Living Organisms Part - 2	05	07
4.	Environmental Management	05	07
5.	Towards Green Energy	04	06
6.	Animal Classification	04	06
7.	Introduction to Microbiology	04	06
8.	Cell Biology and Biotechnology	04	06
9.	Social Health	04	06
10.	Disaster Management	03	05
	Total Marks	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.	Very 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

[Maharashtra State Board of Secondary and Higher Secondary Education, Pune - 04]



Detailed Analysis of Activity Sheet

Science and Technology – Part 2

Time: 2 Hours

Total Marks: 40

Note:

- i. All questions are compulsory.
- ii. 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.
- After choosing the correct option, students are expected to write the correct option in the answer. Example: i. (A)

Q.1. (B) Answer the following.

[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’, ‘Give name’, ‘Question based on figure / picture’ and ‘Complete the flowchart’.
- 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 out the correlation’ 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 ‘Make pairs’, students are expected to write the answer in tabular form. If the question contains three columns, students must match the contents of Column I with those in Column II and Column III appropriately, and write the answer in 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.

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.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 all scientific reasoning questions. Students are expected to write the correct reasoning of the statement in points for better presentation.

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

**Q.2. (B) Answer the following. (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 'Write short notes', 'Complete the flowchart/table', 'Write the difference/ Distinguish', 'Write properties/ characteristics/ advantages/ effects/ uses' and 'Give examples'.
- 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 'Write the difference/ Distinguish', students are expected to write minimum 4 independent points of differences between two components, in a tabular format.
- In 'Give examples', students are expected to give minimum 4 examples based on a particular concept or process. The student is free to give examples from day-to-day life.
- 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. Answer the following. (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 the given statements', 'Suggest remedies/ measures', 'Explanation of diagrams', 'Complete the diagram', 'Complete the table/chart', 'Explain with the help of examples', 'Answer questions based on figures', 'Write answers with explanation' and 'Complete the paragraph'.
- 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 '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. Answer the following. (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 the questions based on it', 'Complete the given table/chart and give explanation', 'Answer the questions in detail' and '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 complete the blanks in the table with appropriate information and redraw the table or flowchart 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 2

Time: 2 Hours

Total Marks: 40

Note:

- All questions must be attempted.
- Wherever necessary scientifically correct diagrams and correct labelling should be drawn.
- 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 shown **E.g.:** 1 (A)

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

[5]

- Metals leaching from low quality metalloids can be converted into compounds with the help of

(A) Thiobacilli and Sulphobacilli	(B) Lactobacilli and <i>Pseudomonas</i>
(C) <i>Actinomyces</i> and <i>Saccharomyces</i>	(D) <i>Acetobacter</i> and <i>Gluconobacter</i>
- Somatic and stem cells undergo _____ type of division.

(A) meiosis	(B) mitosis
(C) budding	(D) cloning
- Which of the following is a connecting link between annelida and arthropoda?

(A) Duck-billed platypus	(B) <i>Peripatus</i>
(C) Lungfish	(D) Whale
- The number of chromosome gets _____ in meiosis.

(A) multiplied	(B) tripled
(C) halved	(D) doubled
- Fish is _____ blooded animals.

(A) mix	(B) cold
(C) warm	(D) none of the above

Q.1. (B) Answer the following.

[5]

- Name the hormones secreted by ovary of female reproductive system.
- Write whether the given statement is true or false. Correct the statement, if false. Changes in genes of the cells are brought about in non-genetic technique.
- Find the odd one out. Solar array, inverter, transformer, absorber.
- Match the columns.

	Column I		Column II
a.	Fossils	1.	Paleontological evidence
b.	Flipper of whale and forelimb of bat	2.	Morphological evidence
		3.	Anatomical evidence

- Complete the analogy.
TCA cycle : Mitochondria :: Glycolysis : _____

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

[4]

- First aid training is essential.
- Birth defects are more common among children born to older women.
- Oxygen is necessary for complete oxidation of glucose.

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

[6]

- i. Smita was advised to take a daily dose of vitamins. Write a short note on the importance and types of vitamins.
- ii. Give any four uses of Xanthan gum.
- iii. Differentiate between conventional and non-conventional sources of energy
- iv. Complete the given table.

Group	Character	Example
-----	Body is covered by tunic	<i>Doliolum</i>
Cnidaria	Tentacles used for capturing prey	-----
Craniata	-----	Toad
-----	Cold blooded aquatic animal	Shark

- v. Identify the following symbols and state their significance:



(a)



(b)

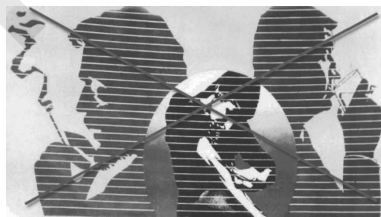
Q.3. Answer the following. (Attempt any 5)

[15]

- i. Observe the diagrams and answer the questions.
 - a. Playing games on mobile while eating is right or wrong. Justify.



- b. What do you conclude from the following picture?



- c. Observe the following picture and state what can be the outcome?



- ii. The warehouse you are in has caught fire. What necessary steps will you take?



- iii. Identify the following based on the given description.
 - a. Numerous pores present on the body of sponges
 - b. Largest phylum with highly successful animals in animal kingdom
 - c. Subphylum of chordates in which notochord is present only in tail region of larvae
 - d. Coelenterate that is commonly known as the Jellyfish
 - e. Annelid with parapodia for locomotion
 - f. Jawless chordates
- iv. Relatives usually say that a newborn shows similar characters to his/her parents. Explain this with suitable examples.
- v. Raju got his wisdom tooth removed. Why is the wisdom tooth not necessary in humans? Write the names of other such organs in human body and whether the same organs are functional in other animals.
- vi.
 - a. What is photo-voltaic effect?
 - b. Hydroelectric energy, solar energy and wind energy are called renewable energies. Why?
- vii. Sia's mother always tells her to communicate well with other people in the society. Explain the importance of good communication with others.
- viii.
 - a. How can the oil spills of rivers and oceans be cleaned?
 - b. Define industrial microbiology.

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

[5]

- i. Diseases in humans can be prevented by administration of vaccines. Vaccines contain inactivated, killed / weakened pathogens that can be used as antigens to provide either permanent or temporary immunity against a specific pathogen or disease. Conventional methods of vaccine preparation include the use of completely or partially killed pathogens. These vaccines however posed a risk of causing disease in case of some persons. Biotechnological techniques provide alternative antigenic genes isolated in the laboratory that can be used to make pure forms of proteins that can be used as antigens to activate the immune system. Recent developments in this field include production of edible vaccines like transgenic potatoes. Consumption of raw potatoes is speculated to develop immunity against the pathogen. These edible vaccines are produced by inserting genes isolated from specific pathogens to produce the antigen in the plants.
Based on the given paragraph answer the following questions.
 - a. How can people immunized with vaccines containing semi-killed pathogens have a risk of contracting a disease?
 - b. Why are vaccines produced using biotechnology safer than conventional vaccines?
 - c. How does the immune system react on administration of vaccines?
 - d. What is the disadvantage of transgenic potatoes containing edible vaccines?
 - e. What is the main advantage of vaccines over antibiotics?
- ii. Recently the number of species on the endangered list have increased.
 - a. State any four causes of plant and animal species becoming endangered.
 - b. Explain the three levels of biodiversity.

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Model Answer Paper

Sample Content

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Model Activity Sheet Solution - 1

Science and Technology – Part 2

Note: Answer to every question must be written on a new page.

Q.1
(A)

- i. (A) [1 Mark]
- ii. (B) [1 Mark]
- iii. (B) [1 Mark]
- iv. (C) [1 Mark]
- v. (B) [1 Mark]

(Note: Students are expected to write the correct option in the answer.
Example: i. (A))

Q.1
(B)

- i. Progesterone, Estrogen [1 Mark]

(Note: In 'Name the following/ Identify', students are expected to identify and write only the term and not the complete statement.)

- ii. False.
Changes in genes of the cells are brought about in genetic technique, whereas in non-genetic techniques either whole cells or tissues are used. [1 Mark]

(Note: 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.)

- iii. Absorber [1 Mark]

(Note: 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.)

iv.

	Column I		Column II
a.	Fossils	1.	Paleontological evidence
b.	Flipper of whale and forelimb of bat	3.	Anatomical evidence

[1 Mark]

(Note: In 'Make pairs', students are expected to write the answer in tabular format.)

- v. TCA cycle : Mitochondria :: Glycolysis : Cytoplasm [1 Mark]

(Note: 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.)

Q.2
(A)

- i. a. We may face various types of major or minor disasters in our daily life. They include accidents, stampede, injuries in fighting, electric shock, burns, heat shock, snake bite, dog bite, fire due to electric short circuit, epidemic of any disease, etc.
- b. Victims of such disasters need to be offered some primary help before actual medical treatment is available.
- c. It is in such circumstances that first aid is useful. The main objective of first aid is preventing deterioration of health, preventing death and starting the process of rehabilitation.
- d. Also, the person present at the location of the disaster should be able to administer first aid either to himself or to others around him, who are in need.
- Hence, it is essential that everyone gets training of first aid.

[2 Marks]

- ii. a. A female has millions of oocytes at the time of birth and new ova are not formed thereafter.
- b. Menopause occurs at approximately 40-50 years of age and hence fewer numbers of eggs are present with reduced fertility since the oocytes have aged.
- c. Their ability to divide diminishes and they may not be able to complete meiotic division properly.
- d. Fertilization of such oocytes may result in production of genetic abnormalities (like Down syndrome) in offsprings.
- Hence, birth defects are more common among children born to older women.

[2 Marks]

- iii. a. A molecule of glucose is completely oxidized in aerobic respiration (i.e. in the presence of oxygen) to form CO_2 , H_2O and energy (38 ATP), via. three steps namely glycolysis, Krebs cycle and electron transfer chain.
- b. However, in anaerobic respiration (i.e. in absence of oxygen), glucose is incompletely oxidized via. glycolysis and fermentation, resulting in the formation of organic acids or alcohols and lesser amount of energy is obtained.
- Hence, oxygen is necessary for complete oxidation of glucose.

[2 Marks]

Q.2
(B)

- i. a. Vitamins are a group of heterogenous compounds which are essential for the proper operation of various life processes.
- b. There are six types of vitamins, i.e. vitamin A, B, C, D, E and K.
- c. Vitamins A, D, E and K are fat-soluble vitamins, whereas, vitamins B and C are water-soluble.
- d. Vitamins like riboflavin (vitamin B_2) and nicotinamide (vitamin B_5) are used for the synthesis of $FADH_2$ and $NADH_2$ respectively.

(Note: Nicotinamide is a form of vitamin B_3 which is essential for synthesis of $NADH_2$.)

[2 Marks]

- ii. The uses of xanthan gum are as follows:
- a. Imparts thickness to ice-creams, puddings, chocolates, milk shakes, chocolate drinks, instant soups, etc.
- b. Production of textile pigments
- c. Production of high quality paper



- d. Production of toothpastes
- e. Production of weedicides
- f. Production of fertilizers

[Any four uses] [2 Marks]

(Note: In 'Write properties/characteristics/uses/advantages/effects', students expected to write a minimum of 4 points.)

iii.

	Conventional sources of energy	Non-conventional sources of energy
a.	Conventional sources of energy are limited and exhaustible.	Non-conventional sources of energy are abundant and inexhaustible.
b.	They cause pollution.	They cause little or no pollution.
c.	Fuels produced from conventional sources are comparatively expensive.	Fuels produced from non - conventional sources are comparatively cheaper.
d.	Conventional sources do not produce green energy.	Non-conventional sources produce green energy.
	Example: fossil fuels such as coal, natural gas etc.	Example: wind energy, solar energy, etc.

[2 Marks]

(Note: In 'Write the difference/ Distinguish', students are expected to write a minimum of 4 independent points of differences between two components in a tabular format.)

iv.

Group	Character	Example
<u>Urochordata</u>	Body is covered by tunic	<u>Doliolum</u>
Cnidaria	Tentacles used for capturing prey	<u>Sea anemone</u>
Craniata	<u>Notochord is replaced by vertebral column</u>	Toad
<u>Pisces</u>	Cold blooded aquatic animal	Shark

[2 Marks]

(Note: In 'Complete the flowchart/ table', students are expected to fill in the blanks with appropriate answers and redraw the flowchart/ table)

v.

- a. Save water

It is necessary to save every drop of water for the survival of our future generations. Without the conservation efforts, the vital water supply may be exhausted.

- b. Save fuel

We need to save fuel by opting for ecofriendly transport.

This will also help to reduce pollution generated by burning of fossil fuels.

[2 Marks]

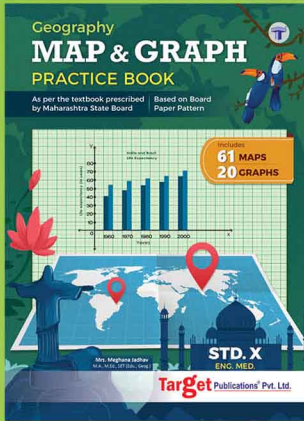


Q.3

- i.
- It is incorrect to use mobile phone while having meal. Children focus more on mobile phone and tend to swallow food without proper chewing. This may lead to choking, overeating and other related problems. **[1 Mark]**
 - The picture suggests that we should stay away from addictive substances like alcohol, tobacco, cigarette, gutkha, drugs. **[1 Mark]**
 - Taking selfies on road may lead to severe injuries or death, as the person becomes so engrossed in clicking selfie that he is not aware about the world around him. **[1 Mark]**
- ii. During a fire disaster the following rescue steps can be taken:
- Use fire extinguisher to put off the fire.
 - Run towards a safe place away from the location of fire.
 - While entering to the safe room, make sure that there is no fire in that room. You can do so by touching the door and feeling the heat on door before opening it.
 - If there is lot of smoke, keep your head low to the ground to avoid excess inhalation of smoke.
 - Call the fire brigade immediately.
 - Also, if any person has suffered minor burns,
 - Wash the injured part with water or hold it under water.
 - Clean the wound with an antiseptic solution using a cotton swab and apply ointments that are specially prescribed for burns.
 - Cover the wound using dry dressing.If a person has suffered major burns,
 - Use sterilized cloth to cover the wound.
 - Immediately remove jewellery, shoes, etc., from the body.
 - Do not touch or burst the blisters on the skin, remove the cloth stuck to the region of burnt skin.**[3 Marks]**
- iii.
- Ostia and osculum
 - Phylum Arthropoda
 - Subphylum Urochordata
 - Aurelia*
 - Nereis*
 - Agnatha
- [3 Marks]**
- iv.
- Sexual reproduction involves two parents i.e. male parent and female parent.
 - The male gamete coming from male parent fuses with female gamete of female parent to form zygote which develops into embryo and then into a new individual.
 - Thus, the new individual always has the recombined genes of both the parents. For example, child shows resemblance with his/her parents with respect to eye colour, hair colour, height, etc.
- Hence, in case of sexual reproduction, newborn shows similarities about characters.
- [3 Marks]**



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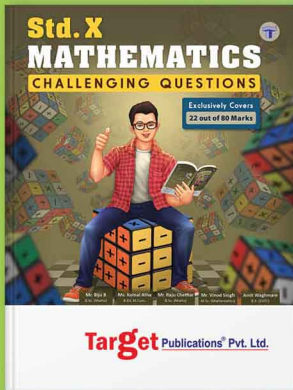
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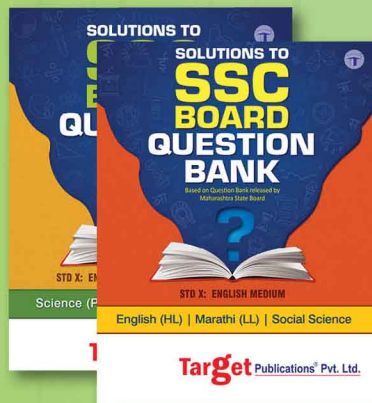
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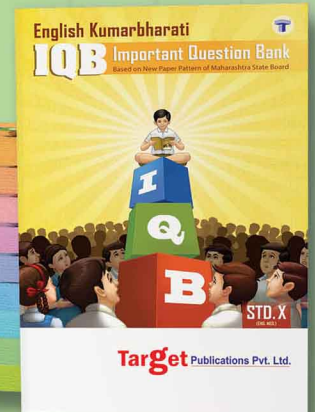
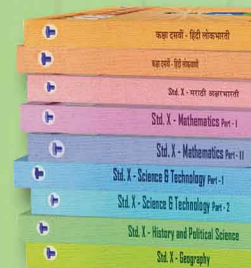
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