

2021

NAVNEET PRACTICE PAPERS

& ACTIVITY SHEETS

STANDARD X

Updated as per
Portion Omitted
from the
Syllabus for the
Year 2020-2021

Subjects :

English (HL)	Marathi (LL)	Hindi (Entire Lokbharati)	History & Political Science	Geography
Science & Technology (Part 1)	Science & Technology (Part 2)	Mathematics (Part-I)	Mathematics (Part-II)	

All Subjects included :

- Updated format of Question Paper/Activity Sheet
- Board's March 2020 Question Paper/Activity Sheet with Solution
- 5 Question Papers / Activity Sheets for Practice

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2020-21

NAVNEET PRACTICE PAPERS & ACTIVITY SHEETS

Std. X

All Subjects :

English (HL)	मराठी (LL)	Hindi Entire (Lokbharati)	History and Political Science	Geography
Science & Technology (Part 1)	Science & Technology (Part 2)	Mathematics (Part-I)	Mathematics (Part-II)	

SALIENT FEATURES :

- A comprehensive kit for 2021 Board Examination
- Detailed notes of the omitted portion of syllabus for the academic year 2020-21 under '**Most Important**' at the beginning of each subject
- Updated **format** of Question Papers/Activity Sheets in each subject
- Board's March 2020 Question Paper/Activity Sheet in each subject with full solution
- Omitted portion of syllabus highlighted in solution to March 2020 Question Paper/Activity Sheet
- 5-5 Question Papers/Activity Sheets for practice prepared by expert and experienced authors keeping omitted syllabus in mind and their answers in QR code
- Answers in Practice papers of Mathematics (Part I & II) for cross-checking



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Updated as per the omitted portion in syllabus of language subjects viz. Hindi (लोकवाणी) and Sanskrit (Composite) or Sanskrit (Entire), the updated format of the Activity sheets and as per the Activity sheets of Board's March 2020.

નવનીત સરાવ ફોટિપ્રિફા STD. X

Optional
subjects

Hindi (Lokvani)
40 marks

Sanskrit
(Composite)
40 marks

Sanskrit (Entire)
80 marks



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Each subject includes :

- Detailed notes of the portion omitted for academic year 2020-21
- Updated format/pattern of Activity sheets
- Board's March 2020 Activity sheets with solutions
- 5 Activity sheets for practice
- Answers to Activity sheets for Practice in QR code

Plenty of practice ensures plenty of success!



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PREFACE

The world is going through an unforeseen situation of Covid-19 that has never been experienced before. Even in such a situation, it is a matter of pride that the principals, teachers, students and their parents from across the state of Maharashtra are giving top priority to the Board exams of Std. X by continuing with their efforts in teaching and learning with the help of technology. As the leading educational publisher, we too, are committed to contribute in this noble deed of imparting knowledge. We are hence delighted to publish the latest '**Navneet Practice Papers and Activity Sheets (All subjects) : Std. X**' book for the Board examination 2021 as per the updated format.

Given the limited timespan of teaching and learning due to the Covid-19 situation, the Board has omitted some portions of the syllabus from the evaluation i.e. examination in each subject for the academic year 2020-21. An important feature of the book '**Navneet Practice Papers and Activity Sheets**' is that it has been prepared precisely by keeping in mind this omitted portion from the syllabus.

In this book, the detailed information about the above mentioned omitted portions has been given for easy reference in a box labelled as '**Most important**' at the beginning of each subject. This will enable the students to know exactly which portion they need to study for the examination.

The book includes updated format of the Board's Question papers/Activity sheets with explanation and guidance. This will ensure that the students will have no doubts about the format of the question papers/activity sheets.

Board's March 2020 Question papers/Activity sheets have been provided along with full solutions and marking scheme for complete guidance. In addition to providing answers to the Question papers/Activity sheets, the questions and answers from the omitted syllabus have also been highlighted with special notes, which will help the students know that the questions on these omitted portion will not appear in the 2021 examination. At the same time the students will understand what questions could be asked in the related question type and how to write their answers. The solutions to the Board's Question paper/Activity sheets have been purposely given on the specimen answer sheets to give the students complete understanding of how to write the answers in an ideal manner.

The '**Navneet Practice Papers and Activity Sheets**' book consists of 5 Question papers/Activity sheets of each subject for practice, too. The practice Question papers/Activity sheets have been prepared meticulously by the expert and experienced team of authors of Navneet keeping the omitted portion in mind. In doing so, we have made sure that all the possible question types in the textbook and 'updated format' are incorporated in the book, for activities or questions can be asked in many different ways for a particular question in the Activity sheets. The book also provides answers to the questions in Practice papers of Mathematics (Part-I) & (Part-II) for cross-checking.

In a nutshell, the '**Navneet Practice Papers and Activity Sheets**' book will be extremely beneficial for the students to prepare and practise thoroughly for their Board examinations. We are confident that with this practice, the students will get brilliant success in their examination.

Navneet wishes all the students of Std. X a spectacular success ahead!

– The Publishers

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Section 6 : Science & Technology (Part 1)

Most Important

Note : Some portion from ‘Science and Technology (Part 1) has been omitted for evaluation in exam to be held for the academic year 2020-21. This will only be considered for extra learning or for self study. The portion omitted from each chapter is :

- Let’s recall • Can you tell? • Try this/Let’s try this • Use your brain power
- Always remember • Do you know? • Introduction to scientists
- Institute at work • Use of ICT • Internet my friend
- Observe • Observe and discuss • Collect Information • Research • Project

In addition to above, the following portions/topics from different chapters are also excluded.

Chapter Number	Textbook Page Number	Matter
Chapter 1	Page Number 5	Uniform circular motion/ Magnitude of centripetal force
	Page Number 9	Mass and weight (Definition)
	Page Number 9	Matter given in the box
Chapter 2	Page Number 16	Classification of elements
Chapter 3	Page Number 30	Chemical reaction
Chapter 4	Page Number 47	We have learnt ... studied about direct current
	Page Number 57	Galvanometer
	Page Number 59	Alternating and direct current
	Page Number 60	D. C. Generator
Chapter 7	Page Number 90	Telescope
	Page Number 93	Physical properties of metals
	Page Number 93	Physical properties of non-metals
	Page Number 95	Chemical reaction of Na and K with water
Chapter 9	Page Number 116	Matter in the box
	Page Number 131	Macro molecules and polymers
	Page Number 132, 133	Table and content

No question will be asked from the omitted portion. However, students should study the omitted portion on their own because it may be useful for further study.

Questions asked in March 2020 board paper from this omitted portion are highlighted.

These Practice Papers have been prepared keeping in mind the portion omitted from the syllabus.

Updated Format of Board's Activity Sheet
(With Guidance and Explanation)

Q. 1. (A) Write the *correct* alternative :

5

Note :

- This part contains five multiple choice questions, carrying 1 mark each.
- All MCQs will be based on textbook only.

Q. 1. (B) Answer the following :

5

Note :

- This part contains five different types of objective questions of 1 mark each.
- All questions will be of different types.
- Different types of questions are :
 - (1) Find the odd one out.
 - (2) Correlate.
 - (3) Match the column/make pairs.
 - (4) True or False.
 - (5) Give the names/molecular formula.



Q. 2. (A) Give scientific reasons : (*Any two*)

4

Note :

- This part contains 3 questions of 2 marks each. Students should attempt any 2 out of 3.
- Minimum 1 question from Chemistry and 1 from Physics to be asked.
- All 3 sub-questions are scientific reasoning questions.

Q. 2. (B) Answer the following : (*Any three*)

6

Note :

- This part contains 5 questions of 2 marks each. Students should attempt any 3 out of 5.
- Minimum 2 questions from Chemistry and 2 from Physics to be asked.
- Different types of Questions :
 - (1) Solve numerical problems.
 - (2) Laws/Define/Principle.
 - (3) Short notes.
 - (4) Chemical reactions.
 - (5) Complete the flow chart.
 - (6) Give difference between.
 - (7) Write properties/characteristics/uses/advantages/effects.
 - (8) Give examples.

Note :

- This part contains 8 questions of 3 marks each. Students should attempt any 5 out of 8.
- 4 questions from Chemistry and 4 from Physics to be asked.
- Different types of questions :
 - (1) Give explanation using the given statements.
 - (2) Suggest remedies/measures.
 - (3) Explanation of diagram.
 - (4) Complete the table/chart.
 - (5) Explain with the help of examples.
 - (6) Solve numerical problems.
 - (7) Complete the diagram.
 - (8) Answer questions based on figures.
 - (9) Write answers with explanation.
 - (10) Write law, theories and explain.
 - (11) Complete the paragraph.

Note :

- This part contains 2 questions of 5 marks each. Students should attempt any 1 out of 2.
- 1 question from Chemistry and 1 from Physics to be asked.
- Different types of questions.
 - (1) Draw a figure and give explanation.
 - (2) Give an incorrect diagram. Correct the given incorrect diagram.
 - (3) Classify with detailed explanation.
 - (4) Read the given paragraph and answer the questions.
 - (5) Complete the given incomplete table/chart and give explanation.
 - (6) Answer the questions in details.
 - (7) Make a concept diagram based on any component or technology.

ACTIVITY SHEETS FOR PRACTICE

SCIENCE & TECHNOLOGY (PART 1)

ACTIVITY SHEET 1

Time : 2 Hours]

[Total Marks : 40

Note : (i) All questions are compulsory.

(ii) Use of a calculator is not allowed.

(iii) The numbers to the right of the questions indicate full marks.

(iv) In case of MCQs (Q. No. 1(A)) only the first attempt will be evaluated and will be given credit.

(v) For each MCQ, the correct alternative (A), (B), (C), (D) with subquestion number is to be written as an answer.

For Eg. : (i) (A), (ii) (B), (iii) (C)

(vi) Scientifically correct, labelled diagrams should be drawn wherever necessary.

Q. 1. (A) Write the correct alternative :

5

(i) Metalloids have properties of

(A) metals

(B) non-metals

(C) both metals and non-metals

(D) neither metals nor non-metals

(ii) Halogens belong to group in the modern periodic table.

(A) 15 (B) 16 (C) 17 (D) 18

(iii) The power of a convex lens of focal length 25 cm is

(A) + 4.0 D (B) 0.25 D (C) - 4.0 D (D) - 0.4 D

(iv) How much will a person with 72 N weight on the earth, weigh on the moon?

(A) 12 N (B) 36 N (C) 21 N (D) 63 N

(v) The absolute refraction index

(A) is expressed in dioptre (B) is expressed in m/s

(C) of air is about $\frac{4}{3}$ (D) has no unit

Q. 1. (B) Answer the following :

5

- (i) State whether the following statement is True or False :

If the separation between two particles is doubled, the gravitational force between the particles becomes half the initial force.

- (ii) Find the odd one out :

Myopia, Presbyopia, Hypermetropia, Spectrometer.

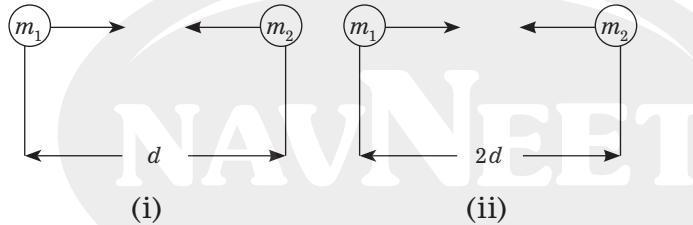
- (iii) Considering the relation between the first two terms of first pair, complete the second pair :

Incident ray : Rarer medium : : Denser medium

- (iv) Match the following :

Column 'A'	Column 'B'
Magnification	(a) $\frac{1}{f}$ (b) $\frac{h_2}{h_1}$ (c) f

- (v) Write the correct answer in the square :



If this $F = x$ [Fig. (i)] then, [Fig. (ii)] $F = \boxed{\quad}$

Q. 2. (A) Give scientific reasons : (Any two)

4

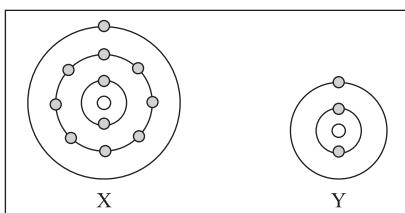
- (i) The material used for fuse has low melting point.
(ii) An object released from the hand, falls on the earth.
(iii) Sodium is more metallic than aluminium.

Q. 2. (B) Answer the following : (Any three)

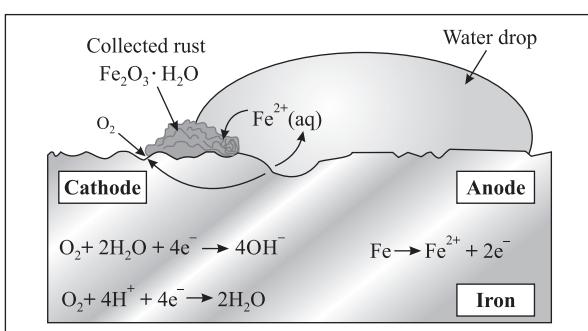
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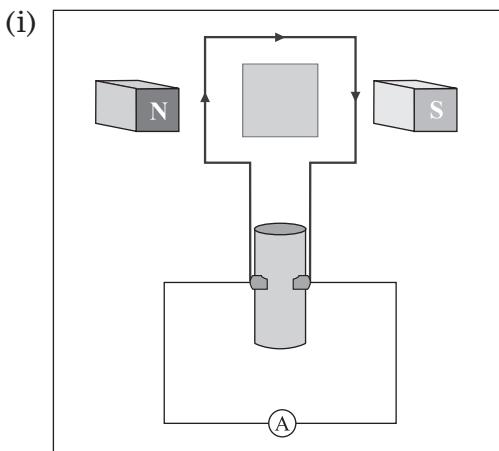
- (i) Define : Specific latent heat of fusion.
(ii) If the absolute refractive indices of glass and water are $\frac{3}{2}$ and $\frac{4}{3}$ respectively, what is the refractive index of glass with respect to water?
(iii) Explain the following reaction with the help of balanced equation : Calcium reacts with water.
(iv) Write molecular formula with structure and carbon skeleton of Cyclohexane.
(v) What are the objectives of the space mission?

- (i) Write down the any three types of artificial satellites? Explain their functions.
- (ii) Atomic number of metal "A" is 11, while atomic number of metal "B" is 20. Which of them will be more reactive? Write the chemical reaction of dilute HCl with metal "A".
- (iii) Observe the following diagram and answer the following questions :



- (A) Identify elements X and Y.
- (B) Do these elements belong to the same group?
- (C) Which element is more electropositive in nature? Why?
- (iv) How does the rate of a reaction depend on the size of the particles of reactants? Give suitable example.
- (v) Study the following procedure and answer the questions below :
- (1) Take 3 spheres of iron, copper and lead of equal mass.
 - (2) Put all the 3 spheres in boiling water in a beaker for some time.
 - (3) Take the 3 spheres out of the water. Put them immediately on a thick slab of wax.
 - (4) Note the depth that each sphere goes into the wax.
- Questions :
- (a) Which property of a substance can be studied with this procedure?
 - (b) Describe that property in minimum words.
 - (c) Explain the rule of heat exchange with this property.
- (vi) Write a neat labelled diagram, explain advanced sunrise and delayed sunset.
- (vii) State the rules used for drawing ray diagrams for the formation of an image by a concave lens.
- (viii) Observe the picture and explain it with a chemical equation :





- (a) Identify the machine shown in the figure.
- (b) Write a use of this machine.
- (c) How does transformation of energy take place in this machine?
- (d) Draw a neat labelled diagram.
- (ii) Answer the following questions :
- (a) Write the structural formula of Ethanol.
- (b) What happens when ethanol is burnt in air?
- (c) State the physical properties of ethanol.

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