

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 :

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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 :

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- 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
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- Omitted portion of syllabus highlighted in solution to March 2020 Question Paper/Activity Sheet
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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 7 : Science & Technology (Part 2)

Most Important

Note : Some portion from ‘Science and Technology (Part 2) has been omitted from the evaluation in exam to be held for the academic year 2020–21. There is no omission of the entire chapter. But some topics are omitted from every chapter.

Especially from Chapters 4 and 5 major portion has been omitted.

- Peek into the history
- Can you tell?
- Use of ICT
- Introduction to scientists
- Internet my friend
- Use your power!
- Observe
- Observe and discuss
- Can you recall?
- Always remember
- Do you know
- Let’s think, etc.

All such matters given in boxes in the textbook is only for self-study or for extra reading. These parts will not be evaluated.

From Chapters 4, 5 and 9, following topics are omitted :

Chapter 4	Chapter 5	Chapter 9
<ul style="list-style-type: none">• Conservation of biodiversity• Environmental organizations and their work• Environmental problems and control measures	<ul style="list-style-type: none">• Electric energy generation and environment• Towards green energy	<ul style="list-style-type: none">• Cyber crime

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.

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

Q. 1. (A) Choose the correct option and write its number for the following questions :

5

Note :

- This question will contain five multiple choice questions each carrying 1 mark.
- All MCQs will be based on textbook only.

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

5

Note :

- This part will contain 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 man out.
 - (2) Correlate.
 - (3) Match the column/make pairs.
 - (4) True or False.
 - (5) Give the names/flow chart with a blank.

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

4

Note :

- This part will contain three questions of 2 marks each. Students should attempt any 2 questions.
- Minimum 1 question from Biology and 1 from EVS to be asked.
- All 3 sub-questions will be based on scientific reasons.

Q. 2. (B) Solve the following questions : (Any three)

6

Note :

- This part will contain five questions of 2 marks each. Students have to attempt any 3 questions.
- Minimum 2 questions from Biology and 2 from EVS to be asked.
- Different types of questions :
 - (1) Laws/definitions/principles.
 - (2) Short notes.
 - (3) Complete the flow chart.
 - (4) Give difference between.
 - (5) Write properties/characteristics/uses/advantages/effects.
 - (6) Give examples based on concept, a process and component.

Note :

- This part will contain eight questions of 3 marks each. Students should attempt any 5 questions.
- 4 questions from Biology and 4 from EVS to be asked.
- Different types of questions :
 - (1) Give explanation using given statements.
 - (2) Suggest remedies/measures.
 - (3) Explanation of diagrams.
 - (4) Complete the label/chart.
 - (5) Explain with the help of examples.
 - (6) Complete the diagram.
 - (7) Answer the questions based on figures.
 - (8) Write the answers with explanations.
 - (9) Write laws, theories and explain.
 - (10) Complete the paragraph.

Note :

- This part will contain 2 questions of 5 marks each. Students should attempt any one question.
- 1 question from Biology and 1 from EVS to be asked.
- This question will contain following types of questions :
 - (1) Draw a figure and give explanation.
 - (2) Correct an 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 question in detail.
 - (7) Make a concept diagram based on any component or technology.

ACTIVITY SHEETS FOR PRACTICE

SCIENCE & TECHNOLOGY (PART 2)

ACTIVITY SHEET 1

Time : 2 Hours]

[Total Marks : 40]

Note : (i) All questions are compulsory.

(ii) Use of 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 every MCQ, the correct alternative (A), (B), (C) or (D) with sub-question number is to be written as an answer.

For e.g. (i) (A), (ii) (B), (iii) (C).

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

Q. 1. (A) Choose the correct option and write its number for the following questions :

5

(i) The casualty behind sudden changes was understood due to principle of Hugo de Vries.

- (A) Transcription (B) Translocation
(C) Translation (D) Mutation

(ii) Excess of carbohydrates are stored in liver and muscles in the form of

- (A) sugar (B) glucose (C) glycogen (D) protein

(iii) is second largest phylum in animal kingdom.

- (A) Mollusca (B) Arthropoda (C) Porifera (D) Platyhelminthes

(iv) gas is considered to be the fuel of future.

- (A) Hydrogen (B) Nitrogen (C) Methane (D) Butane

(v) Transgenic raw potatoes generate the immunity against disease.

- (A) plague (B) cholera (C) leprosy (D) TB

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

5

(i) Find the odd one out :

Human hand, flipper of whale, foreleg of ox, wing of cockroach

(ii) Find out the correct correlation :

Division of nucleus : Karyokinesis :: Division of cytoplasm :

(iii) Name the following :

Hormones secreted by ovary of female reproductive system.

(iv) State whether True/False :

Rifamycin is effective antibiotic against tuberculosis.

(v) Select correct option in Group 'B' related to Group 'A' :

Group 'A'	Group 'B'
Salaam Mumbai	(a) Laughter club
Foundation	(b) Freedom from tobacco
	(c) Pet therapy

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

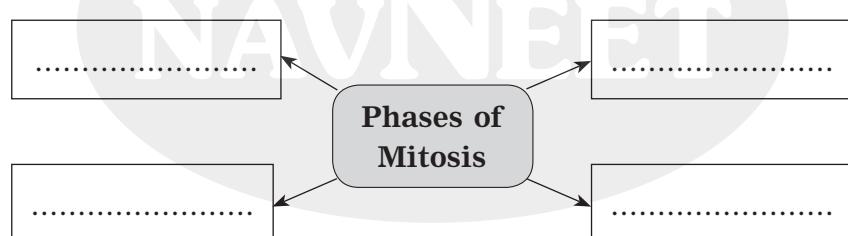
4

- There are clusters of thick forest in the Western Ghats of India.
- Microbial enzymes are said to be eco-friendly.
- Some of the organs in human body are most valuable.

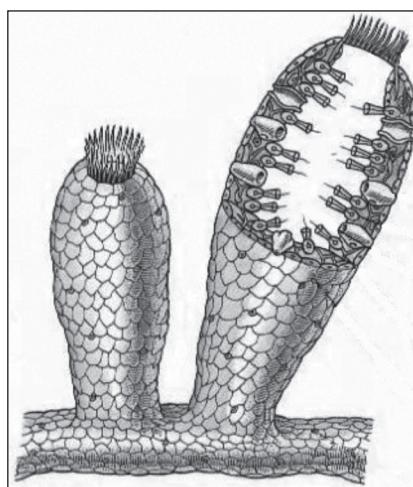
Q. 2. (B) Solve the following questions : (Any three)

6

(i) Complete the following chart :



(ii) Identify the phylum of the given animal and write any two characteristics of this phylum.



(iii) Write one function of each Microbe used in clean technology :

Microbes	Functions
(a) Geobacter
(b) HCB bacteria
(c) Thiobacilli
(d) Actinomycetes

(iv) What do the symbols below indicate? Write in brief.

(a)



(b)



(v) Give two examples of each :

(a) Diseases endangering the social health.

(b) Hobbies to reduce stress.

Q. 3. Solve the following questions : (Any five)

15

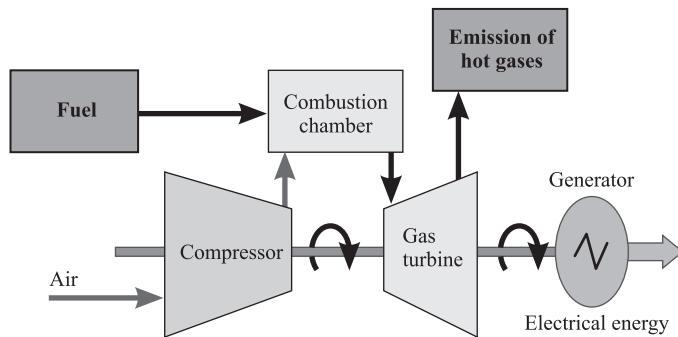
(i) What do you mean by fossil. Explain the importance of fossil as proof of evolution.

(ii) Complete the paragraph by choosing the appropriate words given in the brackets :

(genetically, recombination, gamete, crossing over, haploid, diploid, Meiosis-II, Meiosis-I, zygote)

..... is just like mitosis. In this stage, the two haploid daughter cells formed in undergo division by separation of recombined sister chromatids and four haploid daughter cells are formed. Process of production and spore formation occurs by meiosis. In this type of cell division, four haploid (n) daughter cells are formed from one cell. During this cell division, occurs between the homologous chromosomes and thereby genetic recombination occurs. Due to this, all the four daughter cells are different from parent cell and from each other too.

(iii) Observe the diagram and answer the questions :



Questions :

- (a) Which energy is generated from the power plant?
 - (b) State the source of energy produced.
 - (c) Which is more eco-friendly – Power generation from coal or power generation from natural gas? Why?
 - (iv) Complete the following table :
- | Source of energy | Types of energy | Power plant |
|---------------------|-----------------|---------------|
| (1) Coal | Thermal energy | Thermal plant |
| (2) Uranium | | |
| (3) Water reservoir | | |
| (4) Wind | | |
- (v) What types of benefit and harm occur to human from animals of phylum Arthropoda? Explain it.
 - (vi) What is DNA fingerprinting? Explain it in brief. Where is this technique used? Give any two examples.
 - (vii) Observe the following figure and answer the given questions :



Questions :

- (a) What does this picture indicate?
- (b) Give any one cause for this problem.
- (c) Give any one measure to eradicate this problem.

(viii) Write effects and remedy for following disasters.

- (a) Forest fire (b) Epidemic (c) Locust attack

Q. 4. Solve the following questions : (Any one)

5

(i) Read the given paragraph and answer the questions given below :

Reproduction is the process by which the living species continues its existence. Lower organisms carry out asexual reproduction while higher plants and animals always show sexual reproduction. Plants reproduce asexually by methods such as fragmentation, vegetative propagation, budding, spore formation. For sexual reproduction they form gametes. In animal kingdom, budding, fission of different types and parthenogenesis are some of the methods that do not require both the sexes. Though regeneration also forms new individual, it is not considered to be a reproductive process because, basically it is a repair process. The ability to regenerate is lost in higher phyla. In human beings it is restricted only to wound healing. Sexual reproduction is also undergoing lots of experimentation such as cloning which may make females capable of producing their own baby without intervention of any male.

Questions :

- (a) How do living species continue their existence?
(b) Which are asexual methods of reproduction in Kingdom Animalia?
(c) Why is regeneration not true method of reproduction?
(d) What are methods of reproduction in plants?
(e) What is the modern method of reproduction aimed at in higher organisms?
- (ii) What do these symbols indicate? Explain your opinion about these symbols.

