

# GURUKUL MONTESSORI SCHOOL, SHANTIPURAM, PRAYAGRAJ

## HOLIDAY HOMEWORK

**CLASS: XII A,A1&B**

**SUBJECT: ENGLISH**

**SESSION: 2022-23**

- (1) Read everyday minimum 2 news/ editorials from The Hindu/The Times of India and pen down difficult words with their meanings in your grammar copy. Give some time for listening English news also.
- (2) Write 5 questions each on writing skills topics like Notice, poster, Letter (including application for job) , Article, speech and Report with their complete answers in your grammar copy from previous years board papers. (Mention year and paper code for every selected question)
- (3) Write 5 sets unseen passage questions with their answers from previous year's board question papers. (Mention year and paper code for every selected unseen passage. Don't write unseen paragraphs in your grammar copy.
- (4) Study all the grammar topics like parts of speech, Voice, Narration, clause, punctuation marks, and Tense to improve your grammatical mistakes and enrichment of English.
- (5) Learn all the taught literature chapters and frame minimum 5 questions with their appropriate answers for each paragraph and stanza.

### **Subject: Mathematics**

1. Do all these questions from ncert book
2. Do exercise 1.1 question 1 to 5.
3. Do exercise 1.2 question no. 2 to 6.
4. Do exercise 1.3 any five question.
5. Do exercise 2.1 all question.
6. Do exercise 2.2 graph of  $\sin^{-1} x$  and  $\cos^{-1} x$  and  $\tan^{-1} x$  write its domain and range.
7. Do exercise 3.1 any ten question.
8. Do exercise 3.2 any five question.
9. Do exercise 3.3 all question.
10. Do exercise 3.4 question 1 to 11.
11. Do exercise 4.1 any five question.
12. Do exercise 4.2 any ten question.
13. Do exercise 4.3 any six question.
14. Do exercise 4.4 any five question.
15. Do exercise 4.5 any six question,
16. Do exercise 4.6 any five question
17. Do maths manual activity topic relation function and matrices.

## Subject: Biology

**Note:-** Dear students you have to prepare a Biology practical examination project on project sheets with following instructions

- Cover page – school name, your name, teachers name, Topic
- 2<sup>nd</sup> page- certificate
- 3<sup>rd</sup> page- acknowledgement
- 4- page – index
- 5<sup>th</sup> onwards- content
- Last page - Bibliography
- Should be hand written
- Hand made diagrams compulsory
- few diagrams can be pasted
- Content can be from NCERT, Reference book, Net
- Sentences should be self framed not bookish.
- Topics are given roll no. Wise, check the topic written against your roll no.

S. No	Roll no.	Topic
1	1,13,26,39,	Prefertilisation events in a flower
2	2,14,27,40,	Post fertilisation events in angiosperms
3	3,15,28,	Mendel's laws of inheritance with 4 types of Monohybrid and Dihybrid cross.
4	4,16,29,42,	Genetic disorders
5	5,17,30,43,56	Transcription and translation with its machinery
6	6,18,31,44,57	AIDS & cancer
7	7,19,32,45,58	Fertilisation & pregnancy and embryonic development
8	8,20,33,46,59	Evidences of evolution and Hardy Weinberg's Principle
9	9,21,34,47,60	Experiments based on search for genetic material
10	10,22,35,	Gametogenesis , fertilisation & implantation.
11	11,23,36,49,62	Drugs and alcohol abuse
12	12,24,37,50,63	Replication and it's machinery and sem
13	25,38,51,64,	Sexually transmitted diseases and Assisted reproductive technologies
	52,65 ,53,66,61	Microbes in Household and Industrial product
	41,54,55 48,	Applications of Biotechnology in agriculture and Medicine

## Subject: Physics

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Ch1. Whole exercise (numerical) of S. L. Arora book should be complete and short, long question answer with question

Ch2. Whole exercise (numerical) of S. L. Arora book should be complete short, long question answer with question

## Subject: Chemistry

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### Chap.1 solution

Topics

1. Raoult's law
- 5 Numericals
2. Relative lowering in vapour pressure ( 3 numericals)
3. Elevation in bp( 3 numericals)
4. Depression in fp ( 3 numericals)
5. osmotic pressure( 3 numericals)
6. Vant Hoff factor ( 5 Numericals)
7. Read once electrochemistry from ncert.

## Subject: Physical Education

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- 1) Write Down about these Asana in your Class work copy.
  - 2) Practice of these Asana along with the minimum 30 minutes Exercise.
- Obesity: Procedure, Benefits & Contraindications for Vajrasana, Hastotansana, Trikonasana, Ardha - Matsyendrasana
  - Diabetes: Procedure, Benefits & Contraindications for Bhujangasana, Paschimottanasana, Pavanmuktasana, Ardha - Matsyendrasana, Kapalabhati
  - Asthma: Procedure, Benefits & Contraindications for Sukhasana, Chakrasana, Gomukhasana, Parvatasana, Bhujangasana, Paschimottanasana, Matsyaasana, Anulom-Vilom
  - Hypertension: Procedure, Benefits & Contraindications for Tadasana, Vajrasana, Pavan Muktasana, Ardha Chakrasana, Bhujangasana, Shavasana

## Subject: Hindi

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1. Frame questions of Bazaar Darshan
2. Frame MCQ of patrakariya lekhan aur lekhan prakriya
3. Do revision of chapters of Aroh and Vitan
4. Complete your project file.

## Subject: Computer Science (083)

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Q1- Complete the Application Based Question of File Handling from 1 to 16.

Q2- Complete the Programming Practice & Knowledge Based Question from 1 to 23 in your Holiday Homework notebook. (It should be separate from the class work copy)

**GURUKUL MONTESSORI SCHOOL**  
**Summer vacation home work**

Class :12 C

**Subject: English Core (301)**

- (1) Read everyday minimum 2 news/ editorials from The Hindu/The Time of India and pen down difficult words with their meanings in your grammar copy. Give some times for listening English news also.
- (2) Write 5 questions each on writing skills topics like Notice, poster, Letter (including application for job) , Article, speech and Report with their complete answers in your grammar copy from previous years board papers. (Mention year and paper code for every selected questions)
- (3) Write 5 sets unseen passage questions with their answers from previous years board question papers. (Mention year and paper code for every selected unseen passages. Don't write unseen paragraphs in your grammar copy.
- (4) Study all the grammar topics like parts of speech, Voice, Narration, clause, punctuation marks, and Tense to improve your grammatical mistakes and enrichment of English.
- (5) Learn all the taught literature chapters and frame minimum 5 questions with their appropriate answers for each paragraph and stanza.

**Sub : Hindi**

1. Frame questions of Bazaar Darshan
2. Frame MCQ of patrakariya lekhan aur lekhan prakriya
3. Do revision of chapters of Aroh and Vitan
4. Complete your project file.

**Sub:- Economics.**

Class:-12c and d

Topic:-

- 1) Solve the numerical question of national income 15 question from each method.
- 2) Explain the entire concept in your holiday homework copy about the real income, nominal income and GDP deflator.
- 3) Explain the precaution of all three methods of national income that is about the :-
  - a) value added method.
  - b) Income method.
  - c) Expenditure method.

## Physical education

- 1) Do Regular exercise for minimum 30 minutes Include jogging, running, and exercise.
  - 2) Write Down about these Asana in your Class work copy.
  - 3) And also do practice of these Asana.
- Obesity: Procedure, Benefits & Contraindications for Vajrasana, Hastotansana, Trikonasana, Ardha - Matsyendrasana
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  - Hypertension: Procedure, Benefits & Contraindications for Tadasana, Vajrasana, Pavan Muktasana, Ardha Chakrasana, Bhujangasana, Shavasana

## Subject: Accountancy

### Project Work

- Make a Partnership organization
- Find the different transactions during the accounting year.
- Prepare Accounting Books
- Profit and Loss Appropriation and Balance Sheet.
- Prepare a Proper File on the basis of above Details.

### Written Work

1. A and B are partners since 1<sup>st</sup> April, 2021 without a partnership Deed and they introduced capital of Rs. 35,000 and Rs. 20,000 respectively. On 1<sup>st</sup> October, 2021, A gave loan of Rs.8, 000 to the firm without any agreement as to interest. Profit and Loss Account for the year ended 31<sup>st</sup> March, 2022 shows a profit of Rs.15, 000 but the partners cannot agree on payment of interest and on the basis of division of profit.

You are requiring dividing the profits between them giving reasons for your method.

2. Anita and Ankita are partners sharing profits equally. Their capitals, maintained following fluctuating Capital Accounts Method, as on 31<sup>st</sup> March 2021 were Rs.5,00,000 and 4,00,000 respectively, partnership Deed provided to allow interest on capital @ 10% p.a. The firm earned net profit of Rs.2, 00,000 for the year ended 31<sup>st</sup> March, 2022.

Pass the journal entry for interest on capital.

3. A and B are partners sharing the profits and losses in the ratio 3:2 with capitals of Rs.2,00,000 and Rs.1,00,000 respectively. Show the distribution of profits in each of the following alternative cases.

Case (i) if the partnership deed is silent as the Interest on Capital and the profits for the year Rs.50, 000

Case (ii) if the partnership deed provides for IOC @8% p.a. and the losses for the year are Rs.50, 000.

Case (iii) if the partnership deed provides for IOC @8% p.a. and the profit for the year Rs. 15,000

Case (iv) if the partnership deed provides for IOC @8% p.a. even if it involves the firm in loss and the profit for the year Rs. 15,000.

4. Calculate interest on A's drawings:

(i)	If he has withdrawn Rs.60, 000 on 1 <sup>st</sup> October, 2020 and rate of interest on drawings in 8% per annum.
(ii)	If A withdrew Rs.10, 000 p.m. at the end of each month and IOD is @10% p.a.

5. On 1-04-2020, Brij and Nandan entered into partnership to construct toilets in government girl's schools in the remote areas of Utrakhand. They contributed capitals of Rs.10, 00,000 and Rs.15, 00,000 respectively. Their profit sharing ratio was 2:3 and interest allowed on capital as provided in partnership Deed was 12% p.a. During the year ended 31.03.2021, the firm earned a profit of Rs.2, 00,000.

Prepare profit and Loss Appropriation Account of Brij and Nandan for the year ended 31.03.2021.

6. Write the Distinction between Profit and Loss Account and Profit & Loss Appropriation account.

7. Write the difference between Charge against profit and Appropriation out of Profit.

8. Main features of Partnership.

9. What are the Rights of the partners?

10. Lalan and Balan were partners in a firm sharing profits in the ratio of 3:2. Their fixed capitals on 1<sup>st</sup> April, 2021 were Lalan Rs.1, 00,000 and Balan Rs.2, 00,000. They agreed to allow interest on capital @ 12% per annum and to charge drawings @ 15% per annum. The firm earned a profit, before all above adjustments, of Rs.30,000 for the year ended 31<sup>st</sup> March, 2022. The drawing of Lalan and Balan during the year were Rs.3,000 and Rs.5,000 respectively. Showing your calculations clearly, prepare profit and Loss Appropriation Account of Lalan and Balan. The interest on capital will be allowed even if the firm incurs a loss.

11. Complete Notes.

### **SUBJECT: BUSINESS STUDIES**

#### Assignment 1

Q1 .

(A) Successful organizations do not achieve their goals by chance but following a deliberate process called –

(a) Effectiveness

(b) Efficiency

(c) Co-ordination

(d) Management

(B) During festival season ABC Ltd. received a new order of 1 0,000 mobile phones to be delivered in 10 days, failing which the contract will be null and void. To complete this production manager planned to outsource the production so that order could be on time. The outsourcing resulted in increase in cost by 30%.

(i) Do you think the production manager performed duties effectively and efficiently?

(ii) Give two differences between effective and efficiently.

#### **Q2. Shortly explain the following in 50 words only –**

(a) Management is a continuous process. Comment on it.

(b) Management is pervasive. Justify it

(c) Define the term management; and state any two feature.

(d) What do you think about social and organizational objective of an organization.

#### **Q3. Explain the following questions in 1 20 words –**

(a) Explain the importance of management with the help of suitable example.

(b) State about different level of management

(c) Explain the various functions of management

(d) "Co-ordinations are the essence of management". Comment on it

**Q4. State true or false –**

- (a) Management is used only in business organizations
- (b) Management is a group activity
- (c) Management is the activity of top level only
- (d) Management is not dynamic
- (e) Planning and co-ordination both are inter-related.

**Q5. Fill in the blanks.**

- (a) Head of department belongs to ..... level of management.
- (b) The primary and first function of management is .....
- (c) Achievement of target is called .....
- (d) Growth and survival both are .....
- (e) POSDCORB word is given by .....

Q6. After every three months Mansi offers new scheme to its distributors and agents.

She tries her best to bring changes keeping in mind the needs and wants of customers and incentives offered by competitors. This gives first mover advantage to Mansi and edge over the competitors.

- (a) Identify the characteristic of management followed by Mansi.
- (b) Explain it briefly.

Q7. Co-ordination is needed at all level of management. Explain the statement.

**Assignment 2**

Q1 .

(A) Management principle provides –

- (i) Readymade solution to managerial problems
- (ii) Guidelines for managerial action
- (iii) Both (a) and (b)
- (iv) None of the above

(B) After finishing her BBA degree course, Tanya gets a job of assistant manager in a retail company through the reference of cousin Taruna who works in the same company as a senior manager. Taruna decides to guide Tanya through her experience by making her aware of the important facts about management in practice. She tells her that neither principles of management provides any readymade straitjacket solutions to all managerial problems nor they are rigid perceptions, which have to be followed absolutely.

In the context of the above case –

- (i) Identify the two features of principles of management mentioned in the above paragraph by quoting lined from the paragraph.

(ii) Why do the principles of management not provide readymade straitjacket solutions to all managerial problems.

**Q2. Shortly give the answers only in 50 words –**

(i) State the contribution of Henry Fayol in the field of management.

(ii) What is the authority and responsibility.

(iii) State any two positive effects of division of work.

(iv) Explain unity of command and unity of directions.

(v) What do you think about scalar chain.

**Q3. Answer the following questions in at least 120 words.**

(i) Explain the principles of management given by Henry Fayol.

(ii) Explain the various elements of scientific management.

(iii) What are the role of scientific management.

(iv) Explain the principles of scientific management.

**Q4. State true or false –**

(i) Management principles offer readymade solutions for managerial problems.

(ii) Principles of management can be formed overnight.

(iii) Motion study improves speed of workers.

(iv) Division of work means the delegation of authority

(v) Henry Fayol gave 4 principles of management based on science not rule of thumb.

**Q5. Fill in the blanks**

(i) .....scientific technique insists on hiring specialized or expert for each job.

(ii) Sharing of gain between employee and management is indicated in .....

(iii) Sequence of steps to be followed is decided by..... Functional expert.



**GURUKUL MONTESSORI SCHOOL PRAYAGRAJ**  
**HOLIDAY HOME WORK (2022-23)**  
**Class- XIID (Humanities)**  
**Geography**

Learn the following tables:

**TABLE 1.2: Human Geography and Sister Disciplines of Social Sciences**

<b>Fields of Human Geography</b>	<b>Sub-fields</b>	<b>Interface with Sister Disciplines of Social Sciences</b>
Social Geography	-	Social Sciences - Sociology
	Behavioural Geography	Psychology
	Geography of Social Well-being	Welfare Economics
	Geography of Leisure	Sociology
	Cultural Geography	Anthropology
	Gender Geography	Sociology, Anthropology, Women's Studies
	Historical Geography	History
	Medical Geography	Epidemiology
Urban Geography	-	Urban Studies and Planning
Political Geography	-	Political Science
	Electoral Geography Military Geography	Psephology Military Science
Population Geography	-	Demography
Settlement Geography	-	Urban/Rural Planning
Economic Geography	-	Economics
	Geography of Resources	Resource Economics
	Geography of Agriculture	Agricultural Sciences
	Geography of Industries	Industrial Economics
	Geography of Marketing	Business Studies, Economics, Commerce
	Geography of Tourism	Tourism and Travel Management
	Geography of International Trade	International Trade

**Table 1.1: Broad Stages and Features**

Period	Approaches	Broad Features
Colonial period	Exploration and description	Imperial and trade interests prompted the discovery and exploration of new areas. An encyclopaedic description of the area formed an important aspect of the geographer's account.
Colonial period	Regional analysis	Elaborate description of all aspects of a region were undertaken. The idea was that all the regions were part of a whole, i.e. (the earth); so, understanding the parts in totality would lead to an understanding of the whole.
1930s through the inter-war period	Areal differentiation	The focus was on identifying the uniqueness of any region and understanding how and why it was different from others.
Late 1950s to the late 1960s	Spatial organisation	Marked by the use of computers and sophisticated statistical tools. Laws of physics were often applied to map and analyse human phenomena. This phase was called the quantitative revolution. The main objective was to identify mappable patterns for different human activities.
1970s	Emergence of humanistic, radical and behavioural schools	Discontentment with the quantitative revolution and its dehumanised manner of doing geography led to the emergence of three new schools of thought of human geography in the 1970s. Human geography was made more relevant to the socio-political reality by the emergence of these schools of thought.
1990s	Post-modernism in geography	The grand generalisations and the applicability of universal theories to explain the human conditions were questioned. The importance of understanding each local context in its own right was emphasised.

Question: After the World War II newly independent nations faced 'population explosion'. Explain the above statement in reference to Demographics Transition Theory.

Question: Write a note on the scope of Human Geography

Question: "Population in India is unevenly distributed". Discuss the statement with examples.

**Computer Science**  
**Class XIIth**  
**Session 2022-23**

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**English Core (301)**

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**Physical education**

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- Asthma: Procedure, Benefits & Contraindications for Sukhasana, Chakrasana, Gomukhasana, Parvatasana, Bhujangasana, Paschimottanasana, Matsyaasana, Anulom-Vilom
- Hypertension: Procedure, Benefits & Contraindications for Tadasana, Vajrasana, Pavan Muktasana, Ardha Chakrasana, Bhujangasana, Shavasana

## **HISTORY**

1 Collect the data on any ONE of the following topics :

- (a) Town planning and artifacts of the Harappan civilization
- (b) Mahabharata through a Readers eye
- (c) Th rough the Travellers eyes
- (d) Understanding the Bhakti-Sufi movement in India (e)Architecture:
  - a) Vijaynagar Kingdom
  - b) Colonial Cities: Calcutta,Bombay and Delhi

- Guidelines: -

- Students can use primary sources available in city archives, newspaper cuttings, photographs, film footage and recorded— written speeches.

- Secondary sources can also be used after proper authentication.
  - Tour of the colonial cities,if possible could help in making a comparison.

2 Prepare CBSE project allotted in the class.

- The students have been given topics by CASE for their project
- The class has been divided into FOUR groups
- The students have to prepare the first draft during the holidays.

### GENERAL GUIDELINES:

- The project is to be done on inter-leaf sheets.

- The total length of the project will be 20-25 pages.
- The project should be presented in a neatly covered shoe-lace folder.
- Students have to preserve the initial drafts of the project as well as any research papers that they may have used.
- Students have to be prepared to give a presentation of the project in the class.
- A summary/synopsis (one page) of the project has to be prepared covering:
  - The objective statement
  - Their observations and findings
  - Any Other learning from this exercise such as skills of team work, problem solving, time management, information collection, processing, analyzing and synthesizing relevant information to derive meaningful conclusions;
- Please do not use colored sheets except for the title pages.
- The projects must be neat and well presented and must be completely hand-written. No whiteners to be used or written matter to be crossed out. In case of any mistakes, redo the sheet.
- Do not number sheets or write dates unless so instructed .
- Color illustrations, maps, charts may be hand drawn or printed (if it is relevant for any aspect Of your project) are welcome to make them look attractive.

Guidelines for assessment Of Project will be different for separate topics. They are as given below:

TOPIC 1: TOWN PLANNING AND ARTIFACTS OF THE HARAPPAN CIVILIZATION.

TOPIC 2: MAHABHARATA THROUGH A READERS EYE

TOPIC 3: THROUGH THE TRAVELERS EYES

TOPIC 4: How the Partition in 1947 was not just a division Of territory but also a division of heart and how it affected the common people.

FINAL PRESENTATION

<p>Section 1:  <u>HISTORY PROJECT:</u>  (TITLE OF PROJECT)</p> <p>NAME:  SCHOOL:  YEAR:  ROLL NO:</p>	<p>Section 2:  <u>CERTIFICATE</u>  <u>OF</u>  <u>AUTHENTICITY</u></p> <p>( TO BE  PASTED)</p>	<p>Section 3:  <u>INDEX</u></p>
<p>Section 4:  <u>ACKNOWLEDGEMENTS</u> (Acknowledging the institution, the places visited and the persons who have helped).</p>	<p>Section 5:  <u>PREFACE:</u>  1. Name Of Project:  2. Problem Statement / Objective Of Project:</p>	<p>Section 6:  <u>INTRODUCTION</u>  :  Objective of doing the project.  Introduce the topic studies giving some historical background if possible.</p>
<p>Section 7:  <u>PLANNING AND ACTIVITIES DONE DURING THE PROJECT</u>  If any)</p>	<p>Section 8:  <u>OBSERVATIONS AND FINDINGS</u></p>	<p>Section 9:  <u>CONCLUSIONS</u>  (summarised suggestions or findings, future scope Of study).</p>
<p>Section 10:  <u>LEARNING FROM PROJECT</u></p>	<p>Section 11:  <u>APPENDIX</u>  1. Persons Consulted:  2. Bibliography (Books/ Websites/films referred to)</p>	<p>Section 12:  <u>TEACHER'S OBSERVATION.</u>  Name Of Teacher:  Signature:</p>

## ADDITIONAL TIPS:

### PREFACE:

1. Name of Project:

2. Problem Statement / Objective of Project:

The objective of the project is know the: (quote from the objectives given for your topic) INDEX:

s.NO	PARTICULARS	PAGE NO
1.	Acknowledgements	
2.	Preface	
3.	Introduction	
4.	Planning And Activities Done During The Project	
5.	Observations And Findin	
6.	Conclusions	
7.	Learnings From The Project	
8.	Appendix	
9.	Teacher's Observations	

ALL THE BEST! ! ENJOY YOUR HOLIDAYS IN HOLISTIC WAY

### **Hindi**

1. Frame questions of Bazaar Darshan
2. Frame MCQ of patrakariya lekhan aur lekhan prakriya
3. Do revision of chapters of Aroh and Vitan
4. Complete your project file.

### **Economics**

Topic:-

- 1) Solve the numerical question of national income 15 question from each method.
  - 2) Explain the entire concept in your holiday homework copy about the real income, nominal income and GDP deflator.
  - 3) Explain the precaution of all three methods of national income that is about the :-
    - a) value added method.
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-