



Maharani Gayatri Devi Girls 'School
Sawai Ram Singh Road ,Jaipur

ब्रह्मव्यासहेतुः

HOLIDAY ASSIGNMENT
CLASS- 12
SESSION-2022-2023

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Summer Holidays Homework

ENGLISH

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COMPUTER SCIENCE

Subject: English

1. Audio Visual presentation:

Read the chapter Tiger King from the Supplementary Reader Vistas.

Make a two-minute Audio Visual Presentation on the theme “Save the Planet.”

The presentation may be sent on Whatsapp in the class group.

Maximum time duration for the presentation is 2 minutes.

The same will be marked for Round One of the Assessment of Listening and Speaking Skills.

2. English Project:

Read the themes and sub themes given at the end of the Main Reader Flamingo. Choose the theme, then read the chapter, finalize the title and listen to two podcasts related to the theme of the chapter.

Note down the Title of the podcast, the speaker’s name and the source of the podcast.

Write down the gist of the podcasts in about 200 words on A4 Sheets and attach them in a Hard bound file.

विषय –हिंदी(कोड-302)



निर्देश– *छात्राएँ अवकाशगृहकार्य को अपनी कार्यपुस्तिका में करेंगी ।

* परियोजना कार्य हेतु फाइल का प्रयोग करेंगी

*कार्य करते समय सुन्दर लेखनी एवं रचनात्मकता का ध्यान रखेंगी ।



परियोजना कार्य :

निम्नलिखित विषयों / स्वरुचि पर आधारित किसी एक विषय पर सचित्र परियोजना कार्य तैयार कीजिए । परियोजना कार्य का विस्तार 10-20 पृष्ठों में होना चाहिए ।

*हिंदी साहित्य में भक्ति-भावना *भारतीय ग्रामीण जीवन *जनसंचार के माध्यम आदि

2.स्ववृत्त लेखन : किसी विद्यालय में हिंदी अध्यापिका के पद हेतु आवेदन कीजिये इस हेतु अपना स्ववृत्त (बायोडाटा) प्रस्तुत कीजिए ।

विषय: - संस्कृत



निर्देशा: -

1. अभ्यासकार्यस्यप्रत्येकविषयस्य 5 प्रश्नाःकरणीयाः ।
2. लेखनस्यस्मरणकार्यस्यचगतिविधिम्आन्तरिक-मूल्याङ्केग्रहीष्यते ।
3. अवकाश - गृहकार्यम् पृथक् कार्यपुस्तिकायां कर्तव्यम् ।
4. कार्यप्रस्तुतिकरणस्य अन्तिमतिथिः 30/6/23अस्ति ।

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अअभ्यासकार्यम् - कअपठित -अवबोधनम्

खपत्रलेखनम्

गलघुकथालेखनम्

Elink- www.studiestoday.com

बलेखनकार्यम् - कस्मिन्एवविषये 100 शब्दानाम् एकः अनुच्छेदः लिखत | (A 4 Sheet)
यथा - अनुशासनम् , यात्रावर्णनम् , ममजीवनलक्ष्यम् , ममविद्यालयः महयं रोचते आदयः |
सस्मरणकार्यम् - संस्कृतगीतम् (कस्मिन्एवविषये) स्मरत |
E link - Jayatu samskritam , Gaiea Sanskrit

SUBJECT: MATHEMATICS CORE

Instructions

1. For any queries, contact your subject teacher.
 2. Revise the syllabus covered till now.
 3. The last date of submission of the assignment is 28/06/ 2023
1. Do miscellaneous exercises and examples of the following chapters:
 - i. Continuity Differentiability
 - ii. Matrices
 - iii. Determinants
 - iv. Application of Derivatives
 - v. Linear Programming
 - vi.
 2. Do activities/ project as per your teacher's guidance.

MATHS LAB ACTIVITIES & PROJECTS:

1-10:

<https://ncert.nic.in/pdf/publication/sciencelaboratorymanuals/classXII/mathematics/lelm501.pdf>

11-20:

<https://ncert.nic.in/pdf/publication/sciencelaboratorymanuals/classXII/mathematics/lelm502.pdf>

21-27:

<https://ncert.nic.in/pdf/publication/sciencelaboratorymanuals/classXII/mathematics/lelm503.pdf>

SUBJECT : APPLIED MATHEMATICS

Instructions

1. Revise the syllabus covered till now.
2. For any queries, contact your subject teacher.
3. The last date of submission of the assignment is 28/06/ 2023

1. Do exercises and examples of the following chapters from Handbook
 - i. Matrices

- ii. Determinants
- iii. Differentiation and its Applications
- iv. Numerical Inequalities
- v. Linear Programming

Link to handbook

[https://cbseacademic.nic.in/web_material/Manuals/Book%20 Applied Mathematics ClassXII.pdf](https://cbseacademic.nic.in/web_material/Manuals/Book%20Applied_Mathematics_ClassXII.pdf)

2. Do project as per your teacher's guidance. Students may find suggested topics in the link below.

https://cbseacademic.nic.in/web_material/CurriculumMain24/SrSec/Applied_Mathematics_SrSec_2023-24.pdf

SUBJECT: BIOLOGY

1. Investigatory Project work

Collect the information & Prepare an investigatory or experimental project on a topic selected after discussion with the subject teacher.

The steps to be followed are:

1. Choosing an Investigatory Project
2. Identifying the Objectives of the Project
3. Designing Projects
4. Planning Investigations
5. Executing the Project
6. Reporting/Writing of Project

A format, such as given below, can be followed.

- (i) Title of the investigatory project
- (ii) Objectives
- (iii) Materials needed
- (iv) Method
- (v) Result
- (vi) Analysis and interpretation
- (vii) Discussion
- (viii) Conclusion
- (ix) References

2. Practical file Instructions

1. *Note the following experiments in the biology practical file.*

- II. While writing the experiment, the diagrams should be drawn on the left side blank sheet and the written matter should be on the ruled sheet(right side).
- III. The content can be written from any lab manual or using the given link – <https://ncert.nic.in/science-laboratory-manual.php?ln=>

1. Prepare a temporary mount to observe pollen germination.
2. Flowers adapted to pollination by different agencies (wind, insects, birds)
3. Pollen germination on stigma through a permanent slide or scanning electron micrograph.
4. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice).
5. T.S. of blastula through permanent slides (Mammalian).
6. Prepare a temporary mount of onion root tip to study mitosis.
7. Meiosis in onion bud cells or grasshopper testis through permanent slides.

Subject - Biotechnology

1. Prepare an investigatory or experimental project on a topic selected from the CBSE Class XII ,Biotechnology book
2. Prepare a mind map for Chapter 1-Recombinant DNA technology
3. Visit the NCBI site to get familiar with different databases and tools used in Bioinformatics.

www.ncbi.gov.in

- ❖ Specifications for the investigatory project

The investigatory project should contain the following headings:

- (a) Title Page
- (b) Acknowledgement Certificate
- (c) Index or Table of Content
- (d) Introduction of the Topic
- (e) Principle and Theory
- (f) Procedure
- (h) Experimental details/ Theoretical Analysis /Data collection
- (i) Observation
- (j)Result and conclusion
- (h) Reference
- (i) Bibliography

SUBJECT : PHYSICS

A. Activity record to be completed. Write the following activities in a separate practical record (thin one). Which is to be submitted at the time of opening. Link is provided for the following activities <https://www.learncbse.in/cbse-class-12-physics-lab-manual/>

1) To assemble a household circuit comprising three bulbs, three (ON/OFF) switches, a fuse and a power source.

2) To study the variation in potential drop with length of wire for a steady current.

3) To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.

4) To study effect of intensity of light (by varying distance of the source) on an L.D.R.

For writing following order should be followed.

Aim, Material required, Theory/Principle, Procedure, Conclusion (Ruled side)

Neat diagram and observation table (leave it blank) on Blank side / (plain one) of practical record.

B. Following are the list of projects suggested by CBSE. You have to select a topic from the list after discussion with the subject teacher, you have to prepare a write up for the same. Write up should have

–

a) Aim,

b) Principle/Theory

c) Procedure,

d) Diagram

e) Observation table,

f) Required result and applications with steps of calculations must be mentioned.

You can choose any other topic for your project but it should be Investigatory and related to XII syllabus. You can refer link <http://www.ncert.nic.in/exemplar/labmanuals.html> and <http://ncert.nic.in/ebooks.html> for the same.

SUBJECT: CHEMISTRY

GENERAL INSTRUCTIONS:

1. Please submit the Homework after the school reopens.

Practical records to be completed:

A) Write the analysis of the given salts (Preliminary examinations to be written once for each salt, first you need to write the acidic radical followed by basic radical in continuation. No need to write the preliminary examinations again. This write up is available in XI class practical records).

1. Lead Nitrate
2. Ammonium Sulphate
3. Aluminum Chloride
4. Strontium Acetate.
5. Barium Iodide
6. Zinc Carbonate.
7. Calcium Nitrate

B) Identification of the functional groups: Alcohols, Acids, Aldehydes, Ketones and Phenols. Please use O-labs for the analysis of these groups and learn the tests required. You can also refer Lab manual for the same. Write the tests for the same in your practical records

C) Following are the list of projects. You have to select a topic from the list after discussion with the subject teacher and prepare a write up for the same.

1. Study of the quantity of casein in different samples of milk.
2. Preparation of Soya bean milk.
3. Analysis of honey.
4. Analysis of different samples of cold drinks.
5. Preparation of Rayon thread from filter papers.
6. Study the presence of insecticides and pesticides in fruits and vegetables.
7. Extraction of caffeine from tea leaves.
8. Analysis of vegetables and fruit juice.

NOTE : You can also select other topics for the project but it should be investigatory.

The Project Write up should have –

- a) Aim,
- b) Principle/Theory
- c) Procedure,
- d) Diagram/ Pictures
- e) Observation table,
- f) Result and
- g) Merits and demerits
- h) Bibliography

SUBJECT- HOME SCIENCE

- ❖ Prepare any one toy/ game for children (age Appropriate) using locally available and indigenous material .

OR

Prepare any one teaching aid to communicate socially relevant messages for children / adolescents / adults in the community.

- ❖ Project Work-Following are the list of projects . Complete the project as discussed and assigned in the class

1. Study of an integrated community based, nutrition/health programme being implemented in own area, with reference to a) Programme objectives b) Focal Group/Beneficiaries c) Modalities of implementation
2. Visit to the neighboring areas and interview two adolescents and two adults regarding their perception of persons with special needs.
3. Profile any two person (child/adult) with special needs to find out their diet, clothing, activities, physical and psychological needs.
4. Planning any five messages for nutrition, health and life skills using different modes of communication for different focal groups.
5. Market survey any five processed foods with their packaging and label information

SUBJECT- HISTORY

TOPIC: 1. Project Work- Shortlist few topics and prepare an outline structure on those topics to be discussed in class.

2. Topic will be finalised after discussion in the class.
3. Frame MCQ's from chapter 1 to 4 in the registers.
4. Watch the episodes of Bharat Ek Khoj by Pd Jawahar Lal Nehru.
5. Read the novel Train to Pakistan by Khushwant Singh.

SUBJECT: POLITICAL SCIENCE



One Project to be done throughout the session, as per the existing scheme. The Project can be made on any of the topics given in the syllabus of class XII. Students can use primary sources available in city archives, Primary sources can also include newspaper cuttings, photographs, film footage and recorded written/speeches. Secondary sources may also be used after proper authentication. Use maps cartoons, events, timelines etc for presentation.

Students may work upon the following lines:

1. Choose a topic
2. Need/objectives of the study
3. Content -Timeline, Maps, Mind maps, Pictures, etc.
4. Organization and presentation of Material/Data
5. Analyzing the Material/Data for Conclusion and draw the Relevant Conclusion
6. Bibliography

Expected Checklist for the Project Work:

- Introduction of Topic
- Identifying the events, causes, consequences or remedies
- Various stakeholders and effects on each of them
- Advantages and disadvantages of situation or issues identified
- Short term and long term implications of strategies suggested in the course of research
- Validity, reliability, appropriateness and relevance of data used for research work and for presentation in the project file
- Presentation and writing that is succinct and coherent in the project file
- Citation of the materials referred to, in the file in the footnotes, resources section, bibliography etc

The marks will be allocated under the following heads:

SL.NO.	COMPONENTS	MARKS ALLOTTED
1	INTRODUCTION/OVERVIEW	2
2	VARIETY OF CONTENTS	3
3	PRESENTATION	3
4	CONCLUSION	1
5	BIBLIOGRAPHY	1
6	VIVA-VOCE	10
	TOTAL	20

SUBJECT-GEOGRAPHY (029)

TOPIC: MAP WORK

Book-FUNDAMENTALS OF HUMAN GEOGRAPHY, Textbook for Class XII

Note:Do the Map work seperately and paste in a notebook learn all the items mentioned in the sheet.

Map items have a weightage of 10 marks in Board Exams.

Mark the following on the Political Map of World.

The Largest Country in each continent in terms of Area.

1.North America-Canada

2.South America-Brazil

3.Europe- France

4.Africa-Algeria

5.Asia-Russia

Primary Activities

1.Areas of Subsistence Gathering –

North America-North Canada

South America-Amazon basin,South Chile

Africa-Tropical Africa

Asia-Interior Parts of S.E Asia

Northern Eurasia

Australia-Northern Fringe of Australia.

2. Major Areas of Nomadic Herding

Africa-Atlantic Shores of N Africa,South West Africa

Island of Madagascar.

Asia-Central China,Mongolia,Arabian Peninsula

Tundra Region of Eurasia.

3. Major Areas of Commercial Livestock Rearing

Newzeland,Australia,Argentina,Uruguay,USA

4.Major Areas of Extensive Commercial Grain Farming.

North America-Praries

South America-Pampas

Europe-Steppes

South Africa-Velds

Australia-Downs

New Zealand-Canterbury Plains.

5.Major Areas of Mixed Farming of the World

North-West Europe

Eastern North America

Parts of Eurasia.

Major Cities of the World

Tokyo-Japan

Delhi-India

Shanghai-China

Mumbai-India

Sao Paulo-Brazil.

Write a Note on World Environment Day Theme **Beat the Plastic Pollution in 300 Words**

SUBJECT- Psychology

TOPIC: Case profile

1. Each student need to choose a case
2. Make synopsis on the case
3. Visit psychiatry centre, study the case based on the format given.
4. Report writing in the format given.
5. Submit the work on the day school reopens.
6. Chapter 1- Variation in Psychological Attributes – questions and answers to be done in Register

SUBJECT-SOCIOLOGY

Project Work:

1. To shortlist a relevant topic for research.
2. To collect adequate information available on the topic for Introduction. (Not to exceed more than 5-6 pages)
3. To prepare the Research Design for the topic (Objectives, Hypothesis, Research Method and tool for data collection, Sample Site and Size)
4. If using Survey, prepare the Questionnaire / Interview Schedule.
5. If using Case Study (Comparison) then identify 5 cases to be studied in depth. All matter to be collected in detail for the same.
6. If using Observation- make a list of things to be observed (Participant or Non- Participant) in the research

*** Send the above at drsoniaahuja47@gamil.com for approval.

7. Once approved then collect data as per instruction

Chapter 2: Demographic structure of Indian society

To make notes and answer the questions as given in class

SUBJECT- PHYSICAL EDUCATION

RESOURCE MATERIAL-

*Any physical education reference book (Saraswati Publication) which you can easily get.

*You can download from the website CBSE.nic.in

GENERAL INSTRUCTION-

-Submission on opening.

-Students can contact for any doubt through email- dr.monikamathur9@yahoo.com

HOLIDAY HOME WORK ASSIGNMENT

Make a Record file:

Any one game of your choice out of the list-Basketball, Kho-Kho, Volleyball, Hockey, Cricket, Tennis, Athletics.

-History of the game

-Labeled diagram of field and equipment

-Rules and regulation of the game

-Terminologies of the game

-Fundamental skill of the game

-Personalities

-Venue and Tournament

BUSINESS STUDIES

- 1. Revise Chapters 1 to 3.**
 - 2. Complete the assigned Project Work as per the guidelines discussed and shared in the Class.**
-

ACCOUNTANCY

- 1. Revise Chapters 1 and 2.**
- 2. Complete the assigned Project Work as per the guidelines discussed and shared in the Class.**

ECONOMICS

- 1. Revise Unit 1 of Macroeconomics and Chapters 1 and 2 of Indian Economic Development.**
- 2. Complete the assigned Project Work as per the guidelines discussed and shared in the Class.**

ENTREPRENEURSHIP

- 1. Revise Chapters 1 and 2.**
- 2. Complete the assigned Project Work as per the guidelines discussed and shared in the Class.**

SUBJECT- PAINTING AND COMMERCIAL ARTS

- Make 50 Human figure Sketches in your A4 Size sketchbook in pencil/pencil colours/pen/charcoal.**

COMPUTER SCIENCE & INFORMATICS PRACTICES

1. Give similarity and difference between UNIQUE and PRIMARY KEY constraints.
2. Give output following SQL queries as per given tables(s):

Table: Dress

DCODE	DESCRIPTION	PRICE	MCODE	LAUCHDATE
10001	FORMAL SHIRT	1250	M001	12-JAN-08
10020	FROCK	750	M004	09-SEP-07
10012	INFORMAL SHIRT	1450	M002	06-JUNE-08
10019	EVENING GOWN	850	M003	06-JUNE-08
10090	TULIP SKIRT	850	M002	31-MAR-07
10023	PENCIL SKIRT	1250	M003	19-DEC-08
10089	SLACKS	850	M003	20-OCT-08
10007	FORMAL PANT	1450	M001	09-MAR-08
10009	INFORMAL PANT	1400	M002	20-OCT-08
10024	BABY TOP	650	M003	07-APR-07

TABLE: MATERIAL

MCODE	TYPE
M001	TERELENE
M002	COTTON
M004	POLYESTER
M003	SILK

- I. SELECT SUM(PRICE) FROM DRESS WHERE MCODE= 'M001' ;
- II. SELECT DESCRIPTION, TYPE FROM DRESS, MATERIAL WHERE DRESS. MCODE= MATERIAL.MCODE AND DRESS.PRICE >= 1250 ;
- III. SELECT MAX(MOCODE) FROM MATERIAL ;
- IV. SELECT COUNT(DISTINCY PRICE) FROM DRESS ;

1. Consider the following table STUDENT. Write SQL commands for the following statements.

Table: STUDENT

STU No	Class	Name	Game	Grade	SUPW	Grade
10	7	Sameer	Cricket	B	Photography	A
11	8	Sujit	Tennis	A	Gardening	C
12	7	Kamal	Swimming	B	Photography	B
13	7	Veena	Tennis	C	Cooking	A

14	9	Archana	Basketball	A	Literature	A
15	10	Arpit	Cricket	A	Gardening	C

To get 'agent_code' and agent_name' columns from the table 'agents' and sum of 'advance_ amonunt' column from the table 'orders' after joining. With the following conditions

1. 'agent_code' of 'agents' and 'orders' must be same.
2. The same combination of 'agent_code' and "agent_name" of 'agent' table must be within a group
 - i. Display the names of the students who are getting a grade C in either GAME or SUPW.
 - ii. Display the name of students getting grade A in Cricket.
 - iii. Display the different games offered in the school.
 - iv. Display the SUPW taken up by the students, whose name starts with A.
 - v. Add a new column names Marks.
 - vi. Assign a value 200 for Marks for all the who are getting grade B or above in GAME.
 - vii. Arrange the whole table in the alphabetical order to SUPW

'agent_code' of 'agents' table should arrange in an order, default is ascending order.

INFORMATICS PRACTICES

1. Define the following terms:
 - a) Relation
 - b) Tuple
 - c) Attribute
 - d) Domain
 - e) Metadata
 - f) Candidate key
 - g) Cartesian product
 - h) Degree
2. What is the importance of a Primary Key in a table? Explain with a suitable example.
3. A school has a rule that each student must participate in a sports activity. So each one should give only one preference for sports activity. Suppose there are five students in a class, each having a unique roll number. The class representative has prepared a list of sports preferences as shown below. Answer the following:

Table: Sports Preferences

Roll_no	Preference
9	Cricket
13	Football
17	Badminton
17	Football
21	Hockey
24	NULL
NULL	Kabaddi

- a) Roll no 24 may not be interested in sports. Can a NULL value be assigned to that student's preference field?
- b) Roll no 17 has given two preference sports. Which property of relational DBMS is violated here? Can we use any constraint or key in the relational DBMS to check against such violation, if any?
- c) Kabaddi was not chosen by any student. Is it possible to have this tuple in the Sports Preferences relation?

4. A. Create the table given below.

Table: **Teacher**

No	Name	Age	Department	Dateofjoin	Salary	Sex
1.	Jugal	34	Computer	10/01/97	12000	M
2.	Sharmila	31	History	24/03/98	20000	F
3.	Sandeep	32	Maths	12/12/96	30000	M
4.	Sangeeta	35	History	01/07/99	40000	F
5.	Rakesh	42	Maths	05/09/97	25000	M
6.	Shyam	50	History	27/06/98	30000	M
7.	Shiv Om	44	Computer	25/02/97	21000	M
8.	Shalakra	33	Maths	31/07/97	20000	F

- B. a). To show all information about the teacher of History department.
- b). To list the names of female teachers who are in Hindi department.
- c). To list names of all teachers with their date of joining in ascending order
- d). Increase salary of teacher records by 10% (table teacher)
- e). Give commission of Rs. 500 to all teacher who joined in year 2012 (table teacher)
- f). Modify table teacher, add another column called Grade of VARCHAR type, size 1 into it.
- g). Add a constraint (NN-Grade) in table teacher that declares column grade not null.
- h). Insert a record of your choice in table teacher . Make sure not to enter Grade.
- i). Modify the definition of column grade in table teacher. Increase its size to 2
- j). Rename table teacher as teacdetails.
- k). Drop the column teacher incomegroup from table teacher.
- l). Drop the table teacher.

