GIRLS' HIGH SCHOOL& COLLEGE

SESSION 2023-24

CLASS 12

SUBJECT: ENGLISH LANGUAGE ASSIGNMENT

Q. Describe how your school has prepared you for further studies and a career of your choice. [500 words.]

………

GIRLS' HIGH SCHOOL& COLLEGE

SESSION 2023-24

CLASS 12

SUBJECT: ENGLISH LITERATURE ASSIGNMENT

Q. "The Darkling Thrush" by Thomas Hardy depicts a general mood of gloom and desolation. Discuss with reference to the poem. How is the song of the Thrush in total contrast to the mood of the poet? [1000 – 1500 words.]

गर्ल्स हाईस्कूल एण्ड कॉलेज, प्रयागराज
2023-2024
कक्षा - XII - अ, ब, स, द
हिन्दी अधिन्यास

निर्देशः- अभिभावकों से ये अपेक्षा की जाती है कि वे यह सुनिश्चित करें कि छात्रा हिन्दी अधिन्यास से सम्बन्धित कार्य को प्रपत्र में दिए गए निर्देशानुसार करे।

1. पृष्ठ संख्या   -   01   (नीचे दायी ओर नाम, कक्षा, वर्ग व अनुक्रमांक लिखें)

2. पृष्ठ संख्या   -   02   (मध्य में हिन्दी अधिन्यास एवं उसके नीचे सत्र - 2023-2024 लिखें)

3. पृष्ठ संख्या   -   03   (मध्य में विषय-वस्तु लिखें)

विषय-वस्तुः- "'उद्यमी नर' कविता के माध्यम से श्रम और पुरूषार्थ की महत्ता स्थापित की गई है" इस तथ्य को ध्यान में रखते हुए मानव-जीवन में पुरूषार्थ के महत्व को प्रतिपादित करते हुए एक मौलिक कहानी लिखिए जो लगभग 1000 से 1500 शब्दों में हो।

4. पृष्ठ संख्या - 04 -

विषय सूची

क्रम संख्या	दिनांक	विषय-वस्तु	पृष्ठ संख्या	हस्ताक्षर
1-				

5. पृष्ठ संख्या - 05 - आभार

6. पृष्ठ संख्या - 06 (मौलिक कहानी लेखन)

7. सनदर्भित ग्रंथ

नोटः-

(I)   शब्द सीमा - 1000 - 1500 शब्द

(II)   अधिन्यास से सम्बन्धित कार्य को पूर्ण करने हेतु छात्रा के लिए विज्ञान प्रयोगात्मक कॉपी (Loose paper of science practical file) के पेज़ों का उपयोग करना अनिवार्य है।

(III)   हेडिंग लिखने के लिए काले रंग के ज़ैल पैन का ही उपयोग करें व मूल कहानी को नीले जैल पैन से ही लिखें।

----------------- E N D --------------

GIRLS' HIGH SCHOOL AND COLLEGE, PRAYAGRAJ

SESSION 2023-2024

CLASS 12 B

SUBJECT: <u>COMPUTER SCIENCE</u>

PROJECT WORK

<u>Reference Book</u>:   COMPUTER SCIENCE with Java Class 12 By Sumita Arora (Dhanpat Rai & Company)

<u>INSTRUCTIONS</u>: The students are expected to write <u>30 programs</u> in java. The sequence of the programs will be as follows:

1. 4 programs on Strings (display strings vertically, sorting the words of sentence, etc.)
2. 4 programs on numbers (magic composite, goldbach, isbn number, unique number etc.).
3. 4 programs on recursion (Fibonacci series, factorial, binary search, anagrams, etc.).
4. 4 programs on operations on files (reading and writing on text files, reading and writing on binary files).
5. 4 programs on data structures (stack as an array, stack as linked list, queue as an array, queue as linked list).
6. 4 programs on inheritance
7. 4 programs on 2-D array (spiral matrix, boundary elements, non boundary elements, sorting rows of matrix, sorting columns of matrix)
8. 2 miscellaneous programs (date programs)

   <u>Instructions for writing the project</u>

- The students are expected to execute the above programs on the computer system on BlueJ.
- The project is to be made on **MS Word**.
- The student should type the algorithm and variable description on MS Word.
- The sequence for each program should be **algorithm, program and variable description**.
- Format of Variable Description:

<u>Name of the variable</u>	<u>Data type</u>	<u>Purpose/Description</u>

- The font size should be **12**.
- The project is to be preceded by acknowledgement and index.
- The format of index is:

S. No.	Program	Remark

- No bibliography is required.

<p align="center">-----END-----</p>

GIRLS' HIGH SCHOOL AND COLLEGE, PRAYAGRAJ

SESSION: 2023 – 24

CLASS - 12 B & C

MATHS PROJECT

INSTRUCTIONS : To be written in the project file with diagrams (wherever required) to be drawn on the left side and writing matter on the right side of interleaf pages.

SECTION A IS COMPULSORY AND YOU CAN CHOOSE <u>EITHER</u> SECTION B OR SECTION C

The order to be followed

ACKNOWLEDGEMENT

INDEX

SECTION A

INTRODUCTION(of the topic not more than 8 pages)

QUESTION

SECTION B /SECTION C

INTRODUCTION (of the topic not more than 8 pages)

QUESTION

BIBLIOGRAPHY

Questions to be written with black pen and explanations or solutions with blue pen only.

<u>SECTION A</u>

Attempt any one.

Q1. Using a graph demonstrate a function which is one-one but not onto.

Q2.Using a graph demonstrate a function that is invertible.

Q3. Draw the graph of $\sin^{-1}x$, using the graph of $\sin x = y$. Demonstrate the concept of mirror line (about y = x) and find its domain and range.

Q4. Explain and illustrate (using suitable example) the concept of local maxima and minima using graph.

Q5.Explain the concept of increasing and decreasing function using geometrical significance of dy/dx. Illustrate with proper example.

<u>SECTION B</u>

<u>Attempt any one.</u>

Q1. Using vector algebra find the area of the parallelogram. Also derive the area analytically and verify.

Q2. Find the image of a line with respect to a given plane.

Q3. Find the area bounded by an ellipse and an oblique line.

OR

SECTION C

Attempt any one.

Q1. Draw a rough sketch of Cost (C),Average Cost(AC), and Marginal Cost (MC).Give their mathematical interpretation using the concept of increasing or decreasing function and maxima – minima.

Q2. Using a suitable data, find minimum cost and maximum nutritional value by applying the concept of Diet problem.

Q3. For a given data , find regression equation by the method of least squares.Also find the angle between the regression lines.

………..

GIRLS' HIGH SCHOOL AND COLLEGE
2023 – 2024
CLASS -12 A & B
PHYSICS
HW ASSIGNMENT

**INSTRUCTIONS****: Students are expected to refer to the prescribed book and revise the chapter and then do the questions given below.**

Students will complete this work in their Physics HW Register and submit it when asked for.

Now answer the following questions: -

Q1) State Coulomb's Law in Vector form and show that both charges exert the same force on the other irrespective of their magnitudes.

Q2) Two positive charges 0.1 m apart repel each other with a force of 18 N. If the sum of the charges is 9μC then calculate the magnitude of the individual charges.

Q3) How many electrons are contained in 1C of charge?
   Is it possible for a body to have 2.1×10^{-19} C of charge?

Q4) Which has more number of electrons - K^{+1} or Cl^{-1} ?

Q5) Explain the statement 'Relative permittivity of water is 81'.

Q6) An alpha particle is placed in an electric field of 15×104 NC-1. Calculate the force on the particle.

Q7) Define the following and give their units –
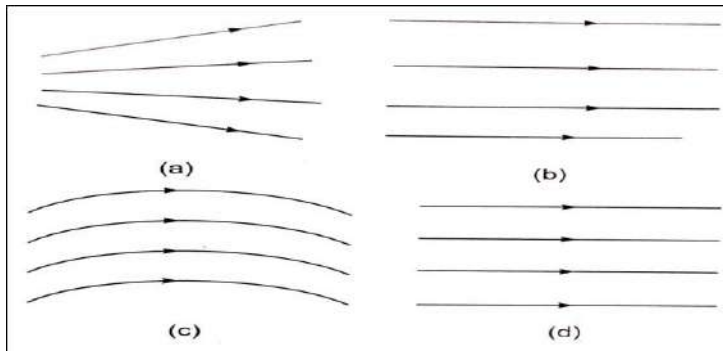   a) Electric Field   b) Electric Flux

Q8) What do you mean by 'net charge'?

 If a surface encloses $+1.6 \times 10^{-19}$ C, -4.8×10^{-19} C and $+3.2 \times 10^{-19}$ C charge within it, what is the Electric Flux linked to it?

Q9) The net outward Electric Flux through the surface of a box is
8.0×10^3 Nm^2C^{-1}. What is the net charge inside the box?
Take ε_0 = 8.85×10^{-12} $N^{-1}m^{-2}C^2$.

Q10)) Identify uniform and non-uniform electric field –

(a)

(b)

(c)

(d)

END

GIRLS' HIGH SCHOOL AND COLLEGE

SESSION 2023 - 2024

CLASS XII – A & B

SUBJECT: CHEMISTRY PROJECT

Write project on the topic selected from the following topics:

1. Amino acids: Peptides, structure and classification, proteins structure and their role in the growth of living beings.
2. Nucleic Acid: DNA and RNA – their structure. Unique nature. Importance in evolution and their characteristic features.
3. Carbohydrates and their metabolism, Blood - haemoglobin and respiration.
4. Vitamins and hormones
5. Simple idea of chemical evolution.
6. Natural polymers (any five) - structure, characteristics, uses. Synthetic polymers (any five) - method of preparation, structure, characteristics and uses.
7. Types of Dyes - methods of preparation, characteristics and uses.
8. Chemicals in medicines: antiseptics, antibiotics, antacids, etc. and their uses.
9. Chemicals and chemical processes in forensic studies.
10. Insecticides, pesticides and chemical fertilisers.
11. Ancient Indian medicines and medicinal plants.
12. Organic Chemistry in Nutrition, Food Science and Biotechnology.
13. Effect of Green House Gases.
14. How Plastics have changed the world, both socially and economically.

Project to be written in the given format below:

1. Introduction / purpose
2. Contents
3. Analysis/ material aid (graph, data, structure, pie charts, histograms, diagrams, etc.)
4. Presentation
5. Conclusion
6. Bibliography

Note:

1. To be written on interleaf pages.
2. Project should be of 30-35 pages.

GIRLS' HIGH SCHOOL AND COLLEGE

SESSION 2023 - 2024

CLASS XII - A

SUBJECT : BIOLOGY

PROJECT ASSIGNMENT

Instructions :

The project should be written under the following headings –

1. Topic
2. Index
3. Acknowledgement
4. Introduction
5. Content (subtopics)
6. Conclusion
7. Bibliography

Topics are as follows –

1. Role of Micro-organisms in industry
2. Bio-piracy
3. Gene therapy
4. Environmental Resistance
5. DNA Fingerprinting
6. Genetic Disorders
7. Cancer
8. Human Genome Project
9. Mendelian Inheritance
10. Immune System

The project should be of 20-25 handwritten pages.

It should also have diagrams, pictures and graphs etc. that support the topic allotted.

The students shall write the project on the topics (1-10) mentioned according to their class roll numbers (1-10), which will be repeated for the next 10 students, i.e. Topic 1 will be allotted to roll number 1, 11, 21, 31, 41, 51, 61 and 71.

****

Project

Note: Parents are expected to ensure that the student should go through all the instructions given below before making the project.

INSTRUCTIONS:

1. There will be two separate Projects as per the topics given below.

2. Order of each project :

• **Acknowledgement** should be short and simple. Write your name, class, section and roll no. at the end. (one page)

• **Name of the topic** (one page)

• **Index** (only serial no. , content and page no. , should be of one page.)

• Subject Matter of the topic (describe the topic with Introduction , relevant headings and sub headings, supported with pictures/diagrams/ graphs/ tables, as per the requirement. It should not be more than 8 to 10 pages.)

• **Conclusion** (one page)

• **Bibliography** (write the name of related websites and books consulted for the making of the project. One page.)

• Each project should not be more than 15 pages including all the points mentioned above. Don't use vulgar or objectionable pictures.

3. Relevant pictures should be pasted neatly and must be **bordered in black** along with **labelling or heading**. Use **only black and blue pens** for writing.

4. Sample projects are given at the end of the course book. These can be read to understand the topics but don't copy the matter from here.

5. Keep both the projects in **one file**. Cover the file with **pink chart paper**. Write **Commerce Project 2023-2024** in the middle and Name, Class, Section, Roll no., Admission no. should be written at the bottom right corner. Then cover it with cellophane sheet and at the top right corner, paste a white slip (2cm by 6cm, bordered in black) using fevicol and leave it blank.

6. Course book, reference books and relevant websites can be used to find the subject matter of the project.

Course Book –

ISC Commerce Volume – II For Class XII by Dr. C.B. Gupta.

Topics for the Project:

1. Select any business undertaking. Study the selected business in terms of ownership capital and profitability. Make a SWOT analysis and present it in a tabular form.

2. Compare marketing strategies adopted by two different companies of the same industry (FMCG/ Telecommunication/ Media/ Education industry etc.) keeping in mind the following:
   -     Product Mix
   -     Price Mix
   -     Place Mix
   -     Promotion Mix

END

GIRLS' HIGH SCHOOL AND COLLEGE
2023-24
Class 12-C
Accounts
Project - I

Instructions:- Students have to develop a case study on their own, involving two partners, who decide to start a partnership firm. They have to write atleast 15 transactions on the basis of the points mentioned below and then they have to write the journal entries, prepare ledger accounts, then Trial balance, then Trading and P/L a/c, P/L Appropriation a/c, Partners' Capital a/c and the Balance Sheet. Lastly, the Conclusion. The order as well as presentation is similar to the first project made in class 11. The length - 15 to 20 pages.

Preparation of Journal/Sub-division of Journal, Ledger, Trial balance and Financial Statements of a Partnership form of business on the basis of a case study.

- Develop a case study showing how two or more friends decide to come together and start a business with a certain amount of capital.

- Prepare their Partnership Deed including interest on Capital, Partner's salary, commission, interest on drawings, interest on partner's loan and rent paid to a partner.

- Write in detail, their transactions during the year : purchases - cash and credit, sales - cash and credit, expenses, purchase of fixed assets and depreciation charged on them, any outstanding expenses, prepaid expenses, accrued income, drawing bills of exchange, accepting bills payable etc.

- From this case study developed (which should have at least 15 transactions), pass the journal entries, post them into the ledger, prepare a Trial Balance and the Trading and Profit and Loss Account, Profit and Loss Appropriation Account and Balance Sheet.

- The various expenses, for comparison purpose, could be depicted in the form of bar diagrams, pie charts.

- Calculate relevant accounting ratios like liquidity, solvency, activity and profitability - giving their formulae and computation (all this could be part of the viva-voce).

- The ratios could also be shown graphically and/or pictorially (bar diagrams, pie charts) and if possible, could be compared with the ratios of the industry.

GIRLS' HIGH SCHOOL AND COLLEGE, PRAYAGRAJ.
SESSION: 2023-2024
ECONOMICS PROJECT
Class: 12 C&D

Note: The students should write project on the following topics of not more than 20 pages each.

Project – 1:

Gig economy and its impact on India's GDP.

Format :

1) Acknowledgement
2) Index
3) Definition and purpose of study.
4) Evolution of Gig economy
5) The Gig work force in India.
6) Enhancing social inclusion in the new age digital economy.
7) Social security for Gig workers in India
8) Ease of doing business in platform economy.
9) Case Study: Partnership between street vendors and platforms through PM SVANidhi Yojna.
10) Challenges of Gig workers
11) Future of gig economy.
12) Recommendations

Project – 2

Inflation: Causes and consequences on Indian Economy

1) Inflation – definition
2) Causes of inflation
3) Types of inflation:
a) Demand – Pull inflation
b) Cost Push inflation
4) Advantages and Disadvantages of inflation
5) Index number: Tool to measure purchasing power:
a) CPI
b) WPI
6) Methods to control inflation:
a) Monetary policy
b) Fiscal policy
7) Stagflation- Cause and consequences.
8.) Bibliography

END

GIRLS' HIGH SCHOOL &COLLEGE, PRAYAGRAJ
SESSION 2023-2024
CLASS- XII
SUBJECT- POLITICAL SCIENCE
DISSERTATION

PROJECT TOPIC- JUDICIAL ACTIVISM IN INDIA

Title Page- Judicial Activism in India- Human Rights Protection**/**Environmental
            Protection

Acknowledgement

Index

Chapter 1- Introduction
            Hypothesis
            Methodology

 Chapter 2- Brief History in India
             Meaning, Definitions.

 Chapter 3- Case Study (Case 1 & Case 2)

Conclusion

Bibliography

Picture Gallery (one page)

Instructions- Word limit-2000, Max. pages- 20. File to be covered with brown paper.

_____**END**_____

GIRLS' HIGH SCHOOL & COLLEGE

SESSION- 2023 —24

CLASS— 12-D

SUBJECT- HISTORY PROJECT

Topic - Role of Sardar Vallabhbhai Patel in the Integration of Princely

States of Hyderabad, Junagarh and Kashmir

Topic

Acknowledgement

Contents

Abstract

Introduction, Hypothesis, Methodology

Chapter 1- Early life and Political Career

Chapter 2- Integration of Princely state of Junagarh

Chapter 3-Integration of Hyderabad

Chapter 4- Integration of Kashmir

Conclusion

Bibliography

Webliography

Picture Gallery

Only topics and subheadings in black ink

Rest with blue ink

No of pages 24

GIRLS' HIGH SCHOOL & COLLEGE

SESSION: 2023-2024

CLASS :12 D

SUBJECT: SOCIOLOGY

Instructions :

- Students are expected to write the project on given topics.
- The word limit is 2000 words for one project
- Students are expected to adhere with following instruction:
  a) Project topic
  b) Acknowledgement
  c) Introduction
  d) Body of the project (matter)
  e) Case Studies (minimum two cases)
  f) Conclusion
  g) Bibliography
  h) Webliography

  Project 1: Explain Religion and Constituents
  Project 2: Gender issues

THE END

GIRLS' HIGH SCHOOL & COLLEGE

SESSION – 2023-2024

CLASS -12 –D

SUBJECT – LEGAL STUDIES

INSTRUCTIONS-

- Students are expected to write the Project on given topics.
- The word limit is 1500-2000 words for one project.
- Students are expected to adhere with following instructions-
  a) Project Topic
  b) Acknowledgement
  c) Introduction
  d) Body of the project (matter)
  e) Case Laws(minimum 2 cases)
  f) Conclusion
  g) Bibliography
  h) Webliography

PROJECT NO 1- Explain in detail the Motor Vehicle Act 2019.With special reference to case laws.

PROJECT NO 2-What is Lok Adalat? How it is beneficial to our Judicial System in today's parlance.

THE END

GIRLS' HIGH SCHOOL & COLLEGE
SESSION 2023 – 24
CLASS – XII-D
SUBJECT – ART
HOLIDAY HOMEWORK

Paper II: Nature Study

- Draw and paint:

    A. A full capsicum.

    B. A capsicum cut in half (clearly showing its seeds).

- Concentration should be laid on the texture, colour and shape.

- For inspiration and reference purposes refer to Google images and search – 'Capsicum watercolour painting'

Paper IV: Original Imaginative Composition

- Draw and paint a scene based on the topic – 'TREE PLANTATION'.

- Paint at least 4 children planting saplings in a park.

- The park should be beautifully painted with trees and flowers.

- For inspiration and reference purposes refer to Google images and search – 'tree plantation painting'

Paper V: Crafts 'A'

- Design an inside page for a book of English poetry.

- Choose the first four lines of your favourite poetry and put them down in good calligraphy style.

- Draw a suitable illustration to go with the selected lines.

- Use calligraphy pens for writing.

END