



Holiday Homework

Grade – XI

ENGLISH:

Prepare a project file on- The portrait of a lady or The Photograph(Poem) including the following points:

- Introduction
- Theme and character
- LIFE in the village /Family Time (Poem)
- DIFFERENT phases of friendship /Family ties and bondingness(Poem)
- Grandmother's death / Joint family vs Nuclear family(Poem)
- VALUES highlighted in the chapter / Poem

NOTE -

Paste a photograph of your grandmother/grandfather and write in detail about their character traits .

Paste a family photograph and write in detail about their character traits

HINDI:

- सतत विकास लक्ष्यों पर भारत के विभिन्न राज्यों की तैयारी से सम्बंधित रिपोर्ट को दर्शाते हुए एक मॉडल तैयार कीजिये (1-10)
- सतत विकास लक्ष्य 2030 को प्राप्त करने में भारत के समक्ष आने वाली चुनौतियों के 33 संकेतक हैं, इन सभी संकेतकों को दर्शाते हुए एक मॉडल तैयार कीजिये (11 onwards)

MATHEMATICS:

Topic: Software Development Life Cycle (SDLC) and Maths

Objective:

To understand the stages of the Software Development Life Cycle (SDLC) and apply mathematical concepts to each stage.

Part 1: Understanding SDLC

Research Phase

Define: What is SDLC?

Explain the importance of proper planning in the development of software.

Planning Phase (Roll No. 1 – 5)

Create a flowchart to represent the planning phase of SDLC.

How can mathematical modeling help in the planning phase?

Design Phase (Roll No. 6 – 10)

Explain the role of algorithms in the design phase.

Create a simple algorithm to solve a mathematical problem of your choice.

Implementation Phase (Roll No. 11 – 15)

Describe how coding is related to mathematical logic.

Write a small program to calculate the area of a triangle using the formula:

$\text{Area} = \frac{1}{2} \times \text{base} \times \text{height}$

Testing Phase (Roll No. 16 – 20)

Discuss the importance of testing in SDLC.

Create test cases for your triangle area calculation program to ensure it works correctly.

Deployment Phase (Roll No. 21 – 25)

Explain the significance of a successful deployment.

Calculate the percentage increase in the efficiency of a software system after optimization. Use the formula:

$\text{Percentage Increase} = (\text{New Efficiency} - \text{Old Efficiency}) \times 100$

Maintenance Phase (Roll No. 26 onwards)

Discuss why maintenance is a crucial phase in SDLC.

Solve the following word problem:

A software system has an initial bug rate of 8 bugs per 1000 lines of code. After maintenance, the bug rate reduces to 4 bugs per 1000 lines of code. Calculate the percentage reduction in the bug rate.

Part 2: Real-life Application

Case Study

Research a real-life application of SDLC in a software development project.

Describe how mathematical concepts were applied in the development process.

Mathematical Analysis

Analyze the performance metrics of the software project studied in the case study.

Calculate the mean, median, and mode of the performance metrics.

Submission Guidelines:

The homework should be neatly written or typed.

Include diagrams, flowcharts, and mathematical calculations where necessary.

Ensure all answers are explained clearly.

Deadline:

Submit your completed homework by [Insert Date].

I hope this homework assignment helps your students understand the relationship between SDLC and mathematics. Feel free to modify or add any additional questions to suit your needs!

It's sustainable Development

PHYSICS:

Prepare a Project work PPT/file on any topic

unit 1 Units and measurement

Unit 2 motion in straight line

*Make a project file on energy conversion

*Make a project on electromagnetic magnetic

* Make a project based on automation drop irrigation system

*Make a project on wind energy conservation into electrical energy

*Complete the assignment given

CHEMISTRY:

Prepare a Project work PPT/file related to any topic

unit 1 Basic concept of chemistry

Unit 2 Structure of atom

Unit 3 Periodic Classification of elements and periodicity in their properties

*Make a project file on phytochemical analysis on moringa oleifera and azadirachta indica leaves.

*Make a project file on spectroscopy.

*Complete the assignment given

While completing the project file following sequence should be followed

- Certificate of Excellence
- Acknowledgement
- Index
- Aim of Project
- Introduction
- Theory
- Apparatus Required
- Procedure followed
- Conclusion
- Precaution
- Bibliography

BIOLOGY:

ART INTEGRATED PROJECT

1. Dietary deficiency diseases

Do the investigation work on the following sub topics

- i Investigate on Nutritional deficiency diseases
- ii Mention at least 5 diseases
- iii Detailed study of Kwashiorkor and Marasmus
- iv Specify the nutrient lacking symptoms, reason and treatment

2. Research on Blood grouping types

- i Prepare a report on Different blood groups
- ii Rh Blood Group
- iii Bombay Blood Group

(You need to cover Discoverer of Blood Groups, Antigen – antibody in details, Compatible Blood groups)

3. Effect of Non biodegradable polymers on Environment and Human Health

- Collect information on amount of polymer pollution
- Also research on major effects of polymers specifically on the health of humans, animals or even plants.

Data collected on polymer pollution rate in India

Recycling of Polymers

- Polymers difficult to recycle

GUIDELINES:

You are required to select any one of the above mentioned projects as Investigatory Project and prepare a project file / PPT / Video (any one) .

- Each project should include- Title of project, Index & Conclusion/Learning outcome.
- Photographs and creative presentation should be a part of the project.
- There should be at least one experiment analysis related to topic

COMMERCE :

INTEGRATED HOLIDAY HOMEWORK

"Every successful man has a successful story and that story is not created overnight ".In fact, every successfully accomplished story begins with the identification of a creative business opportunity.

Any business idea is backed by determination and FET feasibility. Yes it is FET feasibility only so don't get confused with FAT!!

In FET, one needs to conduct feasibility report which necessarily includes finding out if the idea is viable or not on the grounds of Financial, Economic and Technical(FET) basis.

We want our budding entrepreneurs to dream big and think out of the box to come up with the creative business ideas.

While thinking about the new business opportunity students are expected to consider the following points.

✓Business Studies

- The idea should be original and creative.
- Do the SWOT analysis of your product and describe how it is different from the competitors product.
- Children must come up with the demonstration of their product IN ORIGINAL (Dummy Product) along with a proper presentation of its usage and importance.

✓Marketing

- Plan the Marketing strategy layout by specifying the 4P's (Product, Price, Place and Promotion) of Marketing Mix.

✓Accountancy

- Prepare a detailed report (in written) on cost accounting and estimate the total cost of your potential product.
- Prepare a detailed report on various profitability ratios.
- The report prepared must include the estimate production cost of your product, the area where the product is planned to be launched, the funds available and the funds required to be raised from the market.

✓Economics

- Explain clearly how your product will bring change in the society and highlight the social contribution.
- Highlight how in the long run your product will contribute in the Economic development of the country.

✓ Children are advised to watch the previously telecasted episodes of SHARK TANK.

✓ The preparation of the project is MANDATORY.

✓ THE COMPLETE REPORT IS TO BE SUBMITTED IN WRITING ON A4 SHEETS.

ACCOUNTANCY:

Project Work:

"Though it is said that the practice of window dressing should be avoided, but in real business world it is adopted by many business enterprises."

Showcase any such case' of a company which was involved in malpractice of manipulation in its accounting records, through PPT and voiceover.

BUSINESS STUDIES:

ART INTEGRATED LEARNING

- 📌 Prepare a presentable chart or collage on any topic from chapters covered in the class till date.
- 📌 Make a PPT (8-10 slides) on any of the topic covered so far.

ECONOMICS:

ART INTEGRATED LEARNING

- Prepare a presentable chart or collage on any topic from chapters covered in the class till date.
- Make a PPT (8-10 slides) on any of the topic covered so far.
- Revise and practice the syllabus covered so far in the class.

POLITICAL SCIENCE:

INSTRUCTIONS:

1. The complete homework has to be done on the A-4 size sheet•
2. Make a cover page and mention your name, class, section. •
3. Make your homework attractive using blue, black gel pens, glitter pens and rayons. •
4. Various sources of information like internet, newspaper, magazines and books can be used as reference. •

Q.1. Collect information about the 18th Lok Sabha Election (2024) including the following:-
Political Parties with their symbols/No of seats won by political parties in Lok Sabha/Manifesto of different political parties/ main leaders of the political parties/ criminal records of the leaders etc. Complete information about Uttar Pradesh Lok Sabha Parliamentary Constituencies results.

Q.2. Prepare a PPT on the topic-“The Constitution of India”.

*PPT must include main leaders, Constituent Assembly, Drafting committee, Preamble, Features of the Constitution, time taken, adopted and enforce. (At least 15 slides)

HISTORY:

Case study – Britain or Iraq

I – Britain – Read the novel Oliver Twist Group I

Prepare a Model of working conditions in the period of industrial revolution specially in the context of young children.

II – Iraq – Read novels on contemporary Iraq – Post 1980. Group 2

Prepare a Power Point Presentation of the political changes and its impact on the people of Iraq during the civil war and attack on Saddam Hussain’s regime.

INFORMATICS PRACTICES:

Task: Develop a database management system project using software like MySQL. Design and implement a database for a real-world scenario such as a library management system, student information system, inventory management system, or online shopping portal.

PHYSICAL EDUCATION:

The objective of this holiday homework assignment is to deepen your understanding of model-based approaches in physical education and their practical applications. By engaging with this assignment, you will explore various models and their relevance to promoting physical activity, fitness, and well-being.

Instructions :

Select a Model: Choose one of the following models commonly used in physical education and sports Games

Research and Understand: Conduct comprehensive research on the model of Any One Games(Football, Basketball, Badminton, Volleyball) as per the discussion and division in the class. Familiarize yourself with its key principles, components, and its applicability in the realm of physical education and sports sciences.

Real-life Application: Identify a real-life example or case study where your chosen model has been effectively applied to enhance physical activity, fitness, or health outcomes. This could be a documented intervention, program, or initiative at the individual, community, or organizational level.

Presentation:

Prepare a presentation summarizing your research findings and insights.

Your presentation should include an overview of the chosen model, the real-life scenario you investigated, your analysis, reflections, and recommendations for future application or research.

Demonstration:

Demonstration of understanding and explanation of the chosen model.

Depth of analysis of the real-life scenario and its alignment with the chosen model.

Critical reflection on the effectiveness and limitations of the model's application.

Clarity, organization, and presentation of the assignment.

COMM. ART:

Academic Task- Prepare 3 sheets for CBSE Board Practical Portfolio.

Activity:- Using your creativity skills Make any best out of waste.(DIY object/image/art form).

YOGA:

Prepare the Cutouts On A3 Shize Sheet with bold out line and paste it on thermocol sheet according to the distribution as per the discussion in the class.

- i. Surya Namaskar
- ii. Halasana
- iii. Bhujangasana (Cobra Pose)
- iv. Shalabhasana
- v. Vakrasana
- vi. Anulom Vilom (Pranayama)

MARKETING:

1. Pick out products that you consume every day basis. It can be from chewing gum to a Car. Find out is the manufacturer and marketer the same. Mention at least 10 products with the (i) same marketer and manufacturer and (ii) different marketer and manufacturer.
2. Scope of marketing is not limited to products, services but now one can market ideas, people, events, places, properties, information, organisations. Give examples of all that are being marketed.
3. Societal marketing is earning profits by working for society, explain and support with examples.
4. Visit to different marketing organisations in your locality (distributors, wholesalers, retailers). Make a report to find the marketing activities of each of them respectively. Is there any difference in the activities in the organizations visited? Which activities are common to them

AI:

Write an article in A3 size sheets on any one of the following topics:

i) Will AI take away jobs.

ii) Super Intelligence: Boon or Bane

NOTE: A group discussion will also be conducted in the classroom

IT:

Task: research and write a comprehensive research paper on a specific cybersecurity topic. You can explore advanced topics such as network security, cryptography, secure coding practices, threat intelligence, or cyber incident response. The paper should include a literature review, analysis of current trends, and recommendations for improving cybersecurity practices.