



JAIN BHARATI MRIGAVATI VIDYALAYA

HOLIDAY HOMEWORK

SESSION 2025-26

CLASS XI

NAME- _____

Summer
BREAK

JAIN BHARATI MRIGAVATI VIDYALAYA
SESSION 2025-26
HOLIDAY HOMEWORK FOR CLASS XI

1. ENGLISH

Q1. Design a poster to spread awareness about the following topics.

- * SAY NO TO MOBILE ADDICTION
- * CYBER SECURITY
- * ECO - TOURISM: THE NEED OF THE HOUR
- * SUSTAINABLE DEVELOPMENT
- * ADOPT THE 3 R' S

Q2 . Read a book of your choice and write a book review.Cover the following points

- * Name of the Book
- * Name of the Author
- * Year of Publication
- * Main Characters
- * Summary
- * Critical Analysis

Q3. Prepare a project on any one of the given topics

- * Resilience
- * Condition of Old people in modern Society
- * Women Empowerment
- * Conservation - the need of the hour
- * Cleanliness

The project must include questionnaires, case studies and a report.

Q4. Do five grammar exercises each of fill ups(tenses, modals), errors , omissions and jumbled words.

Q5 Do five comprehension passages from Newspaper.

Q6. Write each of the following questions in 100-120 words.

- a). Explain the reasons of changing relationship between the grandmother and the author.
- b). Sketch the character of the grandmother.
- c). Discuss the values highlighted in the chapter The Portrait of a Lady.

2. HINDI

प्रश्न-1. निम्नलिखित विषयों में से किसी एक विषय पर लगभग 1500 शब्दों में एक परियोजना कार्य तैयार कीजिए।

क. महादेवी वर्मा के जीवन पर प्रकाश डालते हुए उनके व्यक्तित्व और रचनाओं पर एक आकर्षक चित्रात्मक परियोजना तैयार कीजिए।

ख. कबीर के धार्मिक विचारों* पर प्रकाश डालते हुए उनके *व्यक्तित्व और कृतित्व* पर एक आकर्षक चित्रात्मक परियोजना तैयार कीजिए।

ग. *जन संचार के विभिन्न माध्यम* पर चित्रात्मक परियोजना कार्य परियोजना का.....

पहला पृष्ठ:-

विद्यार्थी का नाम, कक्षा, अनुक्रमांक

विद्यालय का नाम

दूसरा पृष्ठ:- आभार ज्ञापन

तीसरा पृष्ठ:- उद्देश्य

चौथा पृष्ठ:- रूपरेखा

पाँचवा पृष्ठ:- संपूर्ण चित्राकर्षक परियोजना

अंतिम पृष्ठ:- संदर्भ- ग्रंथ

प्रश्न-2. प्रतिदिन हिंदी समाचार पत्र का संपादकीय पृष्ठ पढ़ें तथा समसामयिक लेखों का संकलन करें।

प्रश्न 3 श्रुतलेख का अभ्यास करें

प्रश्न 4 विद्यालय की वार्षिक पत्रिका मृगावती हेतु कोई लेख, कविता, कहानी लिखें -

निम्नलिखित विषय भी लिए जा सकते हैं—

सतत विकास लक्ष्य

नैतिक मूल्य

3. MATHEMATICS

Q.1 Write the following sets in the roster form.

(i) $A = \{x : x \text{ is a positive integer less than } 10 \text{ and } 2^x - 1 \text{ is an odd number}\}$

(ii) $C = \{x : x^2 + 7x - 8 = 0, x \in \mathbb{R}\}$

Q.2 Let $U = \{1, 2, 3, 4, 5, 6, 7\}$, $A = \{2, 4, 6\}$, $B = \{3, 5\}$ and $C = \{1, 2, 4, 7\}$, then find

(i) $A' \cup (B \cap C')$ (ii) $(B - A) \cup (A - C)$

Q.3 Given $R = \{(x, y) : x, y \in \mathbb{W}, x^2 + y^2 = 25\}$. Find the domain and range of R

Q.4 If X and Y are two sets such that $X \cup Y$ has 18 elements, X has 8 elements and Y has 15 elements; how many elements does $X \cap Y$ have?

Q.5 If $X = \{1, 2, 3\}$, if n represents any member of X , write the following sets containing all numbers represented by

(i) $4n$ (ii) $n + 6$ (iii) $n/2$ (iv) $n-1$

Q.6 A , B and C are subsets of Universal Set U . If $A = \{2, 4, 6, 8, 12, 20\}$, $B = \{3, 6, 9, 12, 15\}$, $C = \{5, 10, 15, 20\}$ and U is the set of all whole numbers, draw a Venn diagram showing the relation of U , A , B and C .

Q.7 Let $A = \{1, 2, 3\}$, $B = \{4\}$ and $C = \{5\}$

(i) Verify that: $A \times (B - C) = (A \times B) - (A \times C)$

(ii) Find $(A \times B) \cap (A \times C)$.

Q.8 Find x and y if: (i) $(4x + 3, y) = (3x + 5, -2)$ (ii) $(x - y, x + y) = (6, 10)$

Q.9 Find the domain and range of the real function $f(x) = 1/(1 - x^2)$

Q.10 If $P = \{x : x < 3, x \in \mathbb{N}\}$, $Q = \{x : x \leq 2, x \in \mathbb{W}\}$. Find $(P \cup Q) \times (P \cap Q)$, where \mathbb{W} is the set of whole numbers.

Q.11 For all sets A , B and C , show that $(A - B) \cap (C - B) = A - (B \cup C)$

Q.12 Find the range of the following functions given by

(i) $f(x) = \frac{3}{2 - x^2}$

(ii) $f(x) = 1 - |x - 2|$

(iii) $f(x) = |x - 3|$

(iv) $f(x) = 1 + 3 \cos 2x$

Q.13

The domain of the function f defined by $f(x) = \sqrt{4 - x} + \frac{1}{\sqrt{x^2 - 1}}$ is equal to

(a) $(-\infty, -1) \cup (1, 4]$

(b) $(-\infty, -1] \cup (1, 4]$

(c) $(-\infty, -1) \cup [1, 4]$

(d) $(-\infty, -1) \cup [1, 4)$

Q.14 In a class of 60 students, 23 play hockey, 15 play basketball, 20 play cricket and 7 play hockey and basketball, 5 play cricket and basketball, 4 play hockey and cricket, 15 do not play any of the three games. Find

- (i) How many play hockey, basketball and cricket
- (ii) How many play hockey but not cricket
- (iii) How many play hockey and cricket but not basketball

Q.15 Prepare a working model on ANY ONE of the following chapters

- (i) Sets (ii) Relations & Functions

4. APPLIED MATHEMATICS

1. Convert the decimal number 156 to binary. Then convert the binary number 101011 to decimal.
2. A student scored 90 marks in decimal. Convert this score to binary and explain the steps.
3. Evaluate $\log_5(125)$ and $\log_2(32)$ using laws of logarithms.
4. Simplify the expression: $\log_3(81) - \log_3(9) + \log_3(3)$.
5. If $\log(x) + \log(x+3) = 1$, solve for x.
6. A bacteria culture doubles every 3 hours. If the initial count is 500, express the population after 12 hours using logarithms and exponential form.
7. At what time between 3 and 4 o'clock will the hands of the clock be at right angles?
8. A clock gains 5 minutes every hour. If it shows 2:00 p.m. now, what will it show after 6 actual hours?
9. January 1, 2023 was a Sunday. What day of the week will be on March 1, 2023?
10. How many days are there between 15th March 2022 and 25th August 2022 (inclusive)?
11. A and B can complete a work in 12 and 16 days respectively. How many days will they take to finish the work together?
12. A can do a job in 20 days and B in 30 days. They work on alternate days starting with A. How long will the job take to complete?
13. Five friends A, B, C, D, and E are sitting in a row. A is to the right of B but to the left of C. D is at the extreme end and E is next to B. Find the correct seating arrangement.
14. In a group of 100 people, 60 like coffee, 40 like tea and 25 like both. How many like neither coffee nor tea? Use a Venn diagram.
15. Find the 20th term and the sum of the first 20 terms of the AP: 5, 8, 11, ...
16. If the 5th term of an AP is 18 and the 10th term is 33, find the first term and common difference.
17. The sum of the first n terms of an AP is $3n^2 + 5n$. Find the AP and its 10th term.
18. The 4th term of an AP is 0 and the 9th term is 20. Find the AP.
19. In an AP, the sum of the first 15 terms is 750 and the common difference is 5. Find the first term.
20. If the sum of n terms of an AP is given by $S_n = 4n - n^2$, find its first term, 10th term, and the number of terms for which the sum is maximum.

5. PHYSICS

1. If the units of energy, force and velocity are 50 J, 5 N and 2m/ s, what will be unit of mass, length and time?

2. The units of power, force and time are 1 kW, 1kN and 1 milli second. Find the unit of mass and length.
3. What will be the value of G in CGS units if in SI units it is $6.67 \times 10^{-11} \text{ m}^3 \text{ kg}^{-1} \text{ s}^{-2}$
4. What will be the dimensions of a/b in the relation $E = b \cdot x^2 / at$, where E is energy, x is distance and t is time.
5. In the relation $h = 2T \cos \alpha / r^2 \rho g$, where h is the height, T is surface tension ρ is density and r is the radius of a capillary tube, α is angle of contact and g is acceleration due to gravity. Verify the correctness of the equation.
6. Give one example each of physical quantities which have SI unit but no dimensions, which neither have unit nor dimension.
7. Acceleration due to gravity is 10 m/s^2 . Determine its value in cm/minutes^2 .
8. If the units of force and length, each are doubled then how many times the unit of energy, Surface tension and stress be affected?
9. If velocity, density and frequency are taken as fundamental quantities, what will be the dimensions of linear momentum and surface tension?
10. If velocity, acceleration and force are chosen as fundamental units, what will be the dimensions of linear momentum, angular momentum and Young's modulus of elasticity?
11. A man walks on a straight road from his home to a market 2.5km away with speed of 5km/h. Finding the market closed, he instantly turns and walks back home with a speed of 7.5km/h. What is the (a) magnitude of average velocity, and (b) average speed of the man over the interval of time (i) 0 to 30min , (ii) 0 to 50min , (iii) 0 to 40min?
12. A car moving along a straight highway with speed of 126 km/h is brought to a stop within a distance of 200m. Find the retardation of the car (assumed uniform), and how long does it take for the car to stop?
13. Select an investigatory project on one of the topic given in Physics Laboratory Manual

6. CHEMISTRY

PART-I: NOTEBOOK WORK

- Q1. Define the terms molarity and molality. Write one significant difference between the two.
- Q2. Calculate the number of moles and number of molecules in 11.2 L of CO_2 gas at STP.
(Given: Molar volume at STP = 22.4 L/mol, Avogadro's number = 6.022×10^{23})
- Q3. A compound contains 40% carbon, 6.7% hydrogen, and 53.3% oxygen by mass. Its molar mass is 60 g/mol. Determine its empirical formula and molecular formula.
- Q4. State the law of conservation of mass and law of definite proportions. Give one example to illustrate each.

- Q5. A sample of calcium carbonate on heating decomposes to give 28 g of CaO and 22 g of CO₂. Prove that the law of conservation of mass is obeyed in this reaction. Also, write a balanced chemical equation for the reaction.
- Q6. What are isotopes and isobars? Give two examples for each.
- Q7. Calculate the wavelength (in nm) of a photon having energy 2.55×10^{-19} J.
(Given: $h = 6.626 \times 10^{-34}$ Js, $c = 3.0 \times 10^8$ m/s)
- Q8. Explain the main postulates of Bohr's atomic model. Mention any two limitations of the model.
- Q9. An electron in a hydrogen atom jumps from the third orbit to the second orbit. Calculate the wavelength and frequency of the emitted radiation. (Given: $R = 1.097 \times 10^7 \text{ m}^{-1}$, $c = 3.0 \times 10^8$ m/s)
- Q10. State Heisenberg's uncertainty principle. Use it to explain why the exact position and momentum of an electron cannot be known simultaneously.

PART-II: Project work

Make a research project file of chemistry according to the assigned topics to each student.

7. BIOLOGY

- Prepare an investigatory project on any one of the following topics
 - Respiratory and Cardiac Disorders
 - Diabetes and its prevention
 - Obesity and Health Risk
 - Comparative Study of Nutritional Content in Natural vs. Commercial Protein Supplements
 - Antibiotic Resistance
 - Effect of Sleep Duration on Short-Term Memory Retention

The project must include: • Cover page • Index • Acknowledgement • Certificate • Introduction • Details about the project • Annexure • Bibliography
- Study the impact of nutrition on the immune system. Explain how certain nutrients support immune health. Analyze how deficiencies or poor diet can lead to increased vulnerability to infections and diseases.
- Create a PowerPoint presentation on the topic "Exploring Future Career Paths in Biology" that showcases the vast and dynamic scope of biology as a field. Highlight how biology connects to various branches—ranging from the study of microscopic organisms to large ecosystems—and explore the diverse career opportunities it offers. Emphasize pathways in healthcare, environmental science, biotechnology, research, and other interdisciplinary fields, illustrating how biology opens doors to impactful and innovative professions.
- Embark on an exciting journey towards shaping the future of biology by creating a mind map or flowchart that illustrates the strategies and steps necessary to pursue your career goals.

8. ARTIFICIAL INTELLIGENCE

- Create an AI project based on Computer Vision
 - Colour detection with bounding box.
- Define Data. Briefly explain the types of data.

- 3) What is deep learning, and how does it differ from traditional machine learning?
- 4) Write any four differences between Machine Learning & Deep Learning.
- 5) Write a program to check whether a number is **even or odd**.
- 6) Write a program to check whether a number is **positive, negative, or zero**.
- 7) Write a program to print numbers from 1 to 10 using a for loop.
- 8) Write a program to print the multiplication table of a number.
- 9) Explain all three domains of Artificial Intelligence.
- 10) What do you mean by Supervised, Unsupervised and Reinforcement learning?

9. COMPUTER SCIENCE

1. Choosing the Right Computer Configuration

Prepare a report on computer configurations suitable for different users. Include specifications like processor type, RAM, storage, and software needs. Choose configurations for:

- **A student:** Needs a balance of performance and affordability for research and assignments.
- **An ERP officer:** Requires high processing power and efficiency for database management.
- **A teacher:** Needs smooth operation for presentations, online learning, and administration.

2. Solving Daily Life Problems using problem solving tools like flowchart, algorithms.

Identify small real-world problems and solve them using algorithms, flowcharts

- **Electricity Bill Calculator:** Given the number of units consumed, calculate the electricity bill.
- **Budget Management System:** Take income and expenses as input and generate a monthly budget report.
- **Automated Library System:** Design a book-tracking system for issuing and returning books.

For each problem, provide:

6. **Problem Statement**
7. **Algorithm**
8. **Flowchart**

10.ACCOUNTANCY

I. Prepare Survey-Based Project on any one of the following topics:

1. Budgeting Habits of Teenagers

- **Objective:** Understand how students manage pocket money or allowance.
- **Survey Focus:** Monthly allowance/pocket money, How much is spent, saved, or donated, Use of digital wallets
- **Concepts Covered:** Budgeting, receipts & payments, accounting for personal finance

2. Awareness of Basic Accounting Terms Among Small Shopkeepers

- **Objective:** Gauge understanding of basic accounting practices.
- **Survey Focus:** Do they maintain daily records?, Do they know terms like purchase, sales, profit, ledger?, Manual vs digital accounting?
- **Concepts Covered:** Basic terms in accountancy, source documents, real-life bookkeeping.

3. Cash vs. Digital Transactions: Preferences in Local Businesses

- **Objective:** Study the transition from cash to digital accounting.
- **Survey Focus:** Percentage of daily transactions done in cash vs digital, Preferred apps or tools (Paytm, Google Pay, etc.), Record-keeping habits
- **Concepts Covered:** Cash book, cash flow, journal entries

4. Understanding of Double Entry System Among Commerce Students

- **Objective:** Test peers' knowledge of debit and credit.
- **Survey Focus:** Can they identify asset vs. liability?, Do they understand the dual aspect concept?
- **Concepts Covered:** Double entry, rules of debit/credit

5. Home Budget Analysis: A Family's Monthly Accounting

- **Objective:** Create a basic record of monthly income & expenses at home.
- **Survey Focus:** Fixed vs variable expenses, Savings goals, Monthly inflow and outflow
- **Concepts Covered:** Journal entries, ledger classification, income & expenditure

Structure for the Survey Report

1. **Title Page**
2. **Objective**
3. **Introduction**
4. **Methodology** (how the survey was conducted)
5. **Survey Questions**
6. **Data Analysis** (charts, graphs)
7. **Findings**
8. **Business Implications**
9. **Conclusion**
10. **Bibliography**

II. Watch following Movies in your free time and write one page about your takeaway from the movie- like what values you have learnt from the movie- entrepreneurial skills, decision making leadership etc.

- ❖ Rocket Singh: Salesman of the Year
- ❖ Udaan
- ❖ Bazaar
- ❖ Corporate

III. Make a PPT on any one chapter of the syllabus.

IV. Prepare any one game/flash cards, based on any of the mentioned chapters-like journal entries, basic accounting terms, rules of debit and credit, source documents, and trial balance:

1. Accounting Taboo

(Prepare cards with accounting terms (e.g., Journal, Ledger), and list 3-4 “taboo” words students **can’t** use while describing the term.)

2. Debit or Credit? (Human Quiz Game)

(Divide the class in two lines — one side is **Debit**, the other **Credit**. Call out accounts (e.g., Rent Paid, Bank Loan), and the correct side takes a step forward)

3. Journal Entry Relay

(In teams, students are given a transaction. Each team must write the correct journal entry and pass it to the next member for the next transaction.)

4. Ledger Match Game

(Match transactions to their correct **ledger account titles**. Can be done with cards or printed charts.)

5. Accounting Snakes & Ladders

(Each block has a question or definition. Correct answer? Move ahead. Wrong? Stay or go down a snake.)

6. Trial Balance Challenge

(Prepare a mixed list of debit/credit balances. Ask your classmates to prepare a mini **trial balance** in limited time. Fastest and most accurate student wins!)

7. Flashcard (Physical or Digital using Quizlet/Canva)

Format 1: Term & Definition

- **Front:** Journal
- **Back:** The book of original entry where transactions are first recorded.

Format 2: Transaction & Journal Entry

- **Front:** Sold goods worth ₹10,000 to Rahul on credit.
- **Back:**
 - **Rahul A/c Dr. ₹10,000**
 - **To Sales A/c ₹10,000**

Format 3: Classification Quiz

- **Front:** Salary Paid – Real, Personal, or Nominal?
- **Back:** Nominal Account

Format 4: Match It Flashcards

- Create sets like:
 - **Source Document → Purpose**
 - **Transaction → Ledger Account**
 - **Error Type → Example**

V. Practice and Revise the syllabus completed till date in the class.

11. BUSINESS STUDIES

I. Prepare Survey-Based Project on any one of the following topics:

1. Awareness and Use of E-Commerce Among Students and Families

- **Objective:** Understand how people use platforms like Amazon, Flipkart, etc.
- **Survey Focus:** Frequency of online shopping, payment methods, satisfaction levels.
- **Concepts Covered:** E-business, modes of business, digital transactions.

2. Entrepreneurial Spirit Among Youth

- **Objective:** Analyze how many students are interested in starting a business.
- **Survey Focus:** Career goals, exposure to start-up culture, role models.
- **Concepts Covered:** Entrepreneurship development, sole proprietorship vs. partnership.

3. Social Responsibility Awareness in Local Businesses

- **Objective:** Study if and how local businesses contribute to society.
- **Survey Focus:** Environmental practices, donations, employee welfare.
- **Concepts Covered:** Objectives of business, social responsibility.

4. Sources of Finance Preferred by New Startups

- **Objective:** Explore what funding options small businesses prefer.
- **Survey Focus:** Bank loans, family funds, angel investors, crowdfunding.
- **Concepts Covered:** Sources of business finance, equity vs. debt.

5. Influence of Family Business Background on Career Choices

- **Objective:** Understand how students from business families think about careers.
- **Survey Focus:** Business legacy, skills learned, aspirations.
- **Concepts Covered:** Forms of business organisation, role of business in personal growth.

Structure for the Survey Report

1. Title Page
2. Objective
3. Introduction
4. Methodology (how the survey was conducted)
5. Survey Questions
6. Data Analysis (charts, graphs)
7. Findings
8. Business Implications
9. Conclusion
10. Bibliography

II. Watch following Movies in your free time and write one page about your takeaway from the movie- like what values you have learnt from the movie- social responsibility, decision making, building resilience etc.

- ❖ Rocket Singh: Salesman of the Year
- ❖ Swades
- ❖ Special 26
- ❖ Chhichhore
- ❖ 3 Idiots

III. Make a PPT on any one chapter of the syllabus

IV. Prepare any one game/flash cards, based on any of the mentioned chapters-*Nature & Purpose of Business, Forms of Business Organisation, Private/Public Enterprises, Business Services, Sources of Finance, etc.*

1. Business Buzzword Bingo (Create bingo cards with business terms (e.g., Partnership, E-commerce, Trade, Equity, Insurance). As you call out definitions or examples, students cross off the matching terms.)

2. Business Taboo (Prepare cards with a main word (e.g., *Sole Proprietorship*) and a list of taboo words (e.g., *owner, alone, single*). The player must describe the main word without using the taboo ones.)

3. Case Study Challenge (Share a short case (e.g., a person wants to start a business but lacks capital). Teams must identify the problem and propose the most suitable business form or finance source.)

4. Business Board Game (Create a simple board game like Monopoly where students roll dice, land on business situations, and answer questions to move forward or earn virtual money.)

5. Flashcard (Physical or Digital using Quizlet/Canva)

Format 1: Term & Definition

- **Front:** Public Sector Enterprises
- **Back:** Business organisations owned and controlled by the government.

Format 2: Question & Answer

- **Front:** What are the features of Joint Hindu Family Business?
- **Back:** Membership by birth, Karta as decision-maker, unlimited liability of Karta, etc.

Format 3: Scenario-Based Flashcards

- **Front:** Ravi wants to start a low-investment business alone. What form of business is suitable?
- **Back:** Sole Proprietorship

Format 4: Match the Term

- Make cutout cards—one side has terms, the other side has definitions or examples. Students match them in pairs.

V. Read and Revise the syllabus completed till date in the class.

12.ECONOMICS

I.Prepare a Project Report by conducting survey & collect data by designing a questionnaire on any one of the following topics:

- ✚ Effect on PPC due to various government policies
- ✚ Opportunity cost as an economic tool (taking real life situations).
- ✚ Effect of social media on students.
- ✚ Clean India Mission.
- ✚ Demand and factors of demand.
- ✚ Literacy ratio of your area.
- ✚ Demographic Condition of your area
- ✚ Solar Energy, a Cost-Effective Comparison with Conventional Energy Sources
- ✚ Bumper Production- Boon or Bane for the Farmer

Choose a title/topic

- ❖ Collection of the research material/data
- ❖ Organization of material/data
- ❖ Present material/data

- ❖ Analysing the material/data for conclusion
- ❖ Draw the relevant conclusion Presentation of the Project Work.

II. Art Integrated activity (Any One)

- i. Make a PowerPoint Presentation on the topic- Compare the contribution made by the three sectors of the economy towards India's GDP.
 - ii. Study the income of 10 household through designing a questionnaire and collection of primary data.
2. Revise and do the back exercise of chapter 1 and 3 of Microeconomics and chapter 1 and 2 of Statistics book as per Sandeep Garg.
 3. **Economics in the News:** Analyze a current economic event and explain its impact using economic principles.

4. Learning based activity. Do it in Economics register

A. State True or False with reason: -

1. Scarcity is the root cause of all economic problem.
2. Prices in the Indian market are continuously falling is a normative economic statement.
3. India should control its population is a positive economic statement.
4. Macroeconomics is also known as 'Price Theory'.
5. Market demand is studied under Macroeconomics.
6. There can exist a paradox in micro and macro activities.
7. 'How to produce' is a problem linked to distribution of national income.
8. Typical shape of PPC is convex to the origin.
9. Increasing MRT leads to concave shape of the production possibility curve.
10. Production of wheat falls from 25 units to 20 units leading to rise in butter production from 10 units to 20 units. MOC is 2.
11. An economy always operates on PPF.
12. Massive unemployment will shift PPF leftward.
13. 'Make in India' and 'start up India' campaigns will shift PPC rightward.
14. Developed nations like Japan will have no economic problems.

15. If there was no scarcity, there was no economic problem.

16. Rotation in PPC is same as shift in PPC.

17. Statistics can only deal with quantitative data.

18. Statistics solves economic problems.

19. Statistics is of no use to Economics without data.

5. **Business Plan:** Design a mock business plan for a hypothetical business, including market analysis, financial projections, and marketing strategies.

13.HISTORY

(A) You are required to write a classical Historical movie (Hollywood & Bollywood) review (minimum of five paragraphs).

Include the following elements in your movie review:

1. In the opening paragraph state the title, and briefly summarize the plot and Historicity of the movie. Describe how you truly feel about the film. What is your honest reaction to the film? Did you like/dislike it? Was it confusing? Exciting? Suspenseful? Boring?

2. In the next three paragraphs analyze the literary, dramatic, and cinematic aspects of the film. Please use examples from the movie to support your analysis.

(B) Historical Landmark Project All over India, especially Delhi or New Delhi there are places set aside to remember people and events that have helped to shape our history. Those places are known as National Historic Landmarks. You are going to:-

- (1) Choose one of those landmarks,
- (2) Do research
- (3) Prepare report
- (4) construct an exhibit of it, with materials available at home,
- (5) Present your exhibit and research findings in the class.

(C) Historical book Review

- What is History? By E.H. Carr
- The nature of History By Arthur Marwick

(D) Watch following movies in your free time

- Mongol: The Rise of Genghis Khan 2007
- Downfall
- Three Musketeers
- Apocalypto

14.POLITICAL SCIENCE

- ❖ State Legislative Assembly (Vidhan Sabha) elections were conducted in Delhi recently. Collect the newspaper clippings and do the result analysis of the election. Mention the name of Chief minister and other ministers. Find out if any unfair means are used in your constituency.
- ❖ Make a project file on any one topic from your syllabus. Include the following pages: acknowledgement, certificate, content, bibliography and Teacher's remarks. (Topics are already discussed in the class)
- ❖ Make mind maps related to your project topic as art-integrated activity
- ❖ Read and revise the topics done so far.
- ❖ Prepare the political terminology from chapter-1 and 2.

Kindly note – Point 1 and 5 need to be done in Political Science notebook.

15.PHYSICAL EDUCATION

1. “SPORTS AND FITNESS: A LIFESTYLE, NOT A TASK”

To promote physical fitness and mental well-being through regular exercise, perform any physical activity (Yoga, Jogging, Strength Training, Dance, Cycling, Running, Exercises etc.) for 30 minutes daily.

2. PROJECT WORK:

Prepare a detailed report on the Indian Premier League (IPL) in a spiral notebook or project file (use picture, tables and charts, wherever needed to make your report informative and presentable). Your report should include: 1. History and Origin of IPL 2. Format and Structure 3. List of Teams and Captains 4. Recent IPL Season Summary 5. Impact on Indian Cricket.

3. SAI KHELO INDIA FITNESS TEST

Write the Purpose, Equipment & Procedure of the following tests: 1. Body Mass Index (Also calculate your BMI and find your category) 2. 50mt. Speed Test 3. 600mt. Run/Walk 4. Sit and Reach Test 5. Partial Curl Test 6. Push-ups & Modified push-ups

- ❖ Do Question No. 2 & 3 in Spiral notebook or file.

16.INFORMATICS PRACTICES

1. Which of the following statements is incorrect?
 - (a) 1 Byte = 8 bits
 - (b) 1 KB = 1024 bytes
 - (c) 1 MB = 1024 KB
 - (d) 1 GB = 1024 KB
2. In ASCII, decimal number 65 is used to represent which alphabet?

- (a) H (b) J
(c) A (d) Z
3. If the value of a = 20 and b = 20, then a+=b will assign _____ to a
(a) 40 (b) 30
(c) 20 (d) 10
4. Which of the following is/are the valid variable name(s):
I global
II 99flag
III sum
IV as\$wer
(a) I, II, IV (b) I, II
(b) Only I (d) Only III
5. What data type is the object below?
L=[1,23,'hello',1]
(a) tuple (b) list
(c) dictionary (d) array
6. What will be the output of the following:
print(len(str(17//4)))
(a) 1 (b) 3
(b) 4
7. Find the errors and give the reason:
(a) List1 = [3, 4, 5]
List2 = List1 * 3
print (List1 * 3.0)
Print (List2)
(b) LA = [3, 3, 8, 1, 3, 0, '1', '0', '2', 'e', 'w', 'e', 'r']
print (LA[::-1])
print (LA[-1:-2:-3])
print (LA[-1: -2: -3: -4])
print (LA[-1: -2; 3])
10. How are comments written in a Python program?
11. Distinguish between the following:
a) Interactive mode and Script mode
b) Interpreter and Compiler

12. What does “immutable” mean? Which data types in Python are immutable?
13. Write a function to find whether the dealer is in profit or loss for selling 100 notebooks.
14. Consider the list given below and write the output:

list = [10, 20, 30, 40, 50, 60].

- (a) print (list [::2])
- (b) print (list [::-1])
- (c) print (list [-4:])
- (d) print (list [:3])

17.PSYCHOLOGY

1. Revise chapter 1: What is Psychology?
2. **Collage /Poster making** : Read some news, articles ,researches published in magazines or newspapers related with psychology. Present it on A3 sheet with artistic abilities.You can put images or quotations.
3. **Make a project file on any one of the given topics**-The project/small study would involve the use of different methods of enquiry like observation, survey, interview, questionnaire related to the following topics:
 - Bullying/Cyberbullying
 - Impact of social media on the youth today
 - Altruism and its impact on wellbeing
 - Peer Pressure
 - Anger management
 - Sleep Hygiene
 - Changing Gender roles and stereotypes
- 4.**Collect the following information about yourself-**
 - Family tree
 - Birth history
 - Information about socioeconomic status consisting of information about mother's/father's education and occupation, number of members in the family- brothers, sisters and their birth order
 - Information about physical health, physical characteristics.
 - Childhood history
 - Adolescent stage
 - Relationships with father, mother, sibling, friends, teacher
4. **Make your own Personal Reflection Journal**- Make a daily dairy(for 5 days) in which you note down your thoughts, emotions, and behaviors. Reflect on why you might be feeling or behaving in certain ways.
5. Make **a model** on any one of the following topics-
 - Branches of psychology

- Principle of perceptual organisation
 - Bronfenbrenner's contextual view of development
 - Emotion Wheel
 - Relation of Mind & Behavior
 - Positive self Mirror
 - Stages of development in humans
 - Classical conditioning
 - Parts of Human Brain
6. You have studied Chapter 1 “What is Psychology” this chapter tells you about several professionals in the field of psychology. Contact a psychologist who fits into one of the categories and interview the person (telephonic interview). Have a list of question beforehand. Possible questions could be:
- 1.What kind of education is necessary for your particular job? 2. Which college/university would you recommend for the study of this discipline? 3. Are there many jobs available today in your area of work? 4. What would a typical day at work be like for you- or there no such thing as “typical”? 5. What motivated you to enter this line for work?

18.COMMERCIAL ART

PROJECT 1: SKETCHING

Instructions: MAKE FIVE **STILL LIFE** COMPOSITION USEING VARIOUS TECHNIQUES .(WATER COLOUR , SHEET SIZE A3).

PROJECT 2: PAINTING /POSTER

Instructions: MAKE TEN PAINTINGS/ POSTERS IN MIXED MEDIA. (SHEET SIZE A3)

19.PAINTING

PROJECT 1: SKETCHING

Instructions: MAKE FIVE **STILL LIFE** COMPOSITION USEING VARIOUS TECHNIQUES .(WATER COLOUR , SHEET SIZE A3).

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