

HOLIDAYS HOMEWORK & PROJECTS FOR CLASS XII

S.No.	SUBJECT	NAME OF THE TEACHER	HOLIDAY HOMEWORK
1.	ENGLISH	Mr. Manoj Mishra Ms. Geeta Ms. Swati	<p>1. Solve 10 passages of your choice in a Holiday homework register.</p> <p>2. Write meaning of difficult words of all lessons of your books(Flamingo and Vistas) in Holiday homework register and learn them.</p> <p>3. Write meaning of 50 idioms and phrases and proverbs in your Holiday homework register and learn them.</p> <p>Assignments are uploaded on the portal for the following chapters:</p> <ol style="list-style-type: none">1. The Last Lesson2. Lost Spring3. My mother at sixty six4. Keeping Quiet5. Third Level6. The Tiger king <p>The students are required to complete the assignments in their registers and submit it after the summer vacation.</p>
2.	MATHS	Ms. Ritika Ms.Soumya	<p>Complete all the practicals in Mathematics Activity File</p> <p>Assignments are uploaded on the portal for the following chapters:</p> <ol style="list-style-type: none">1: Inverse Trigonometry2: Matrices3: Determinant4: Relation and function5: Continuity and Differentiability <p>The students are required to complete the assignments in their registers and submit it after the summer vacation.</p>

COMPULSORY ACTIVITIES FOR STUDENTS OF SCIENCE & COMMERCE STREAM – MODEL MAKING

Prepare a Model / Research Paper/Project on any one of the following topics

TOPICS :

1. Linear Programming Problem - Diet Problem, Manufacturing Problem, Transportation problem
2. Application of Derivatives - Maxima and Minima
3. Economics Modelling - Analysis of growth, inflation, trade and other economic indicators
4. Artificial Intelligence and Automation - How mathematics is used in developing and refining these technologies
5. Mathematical Modelling - In relation to public health and other areas
6. Using Geogebra app to explain three dimensional figures, graphs of functions.
7. Prosthetics - Mathematics behind its working
8. Block Printing - Making symmetrical pattern using Tessellation on TV covers/ Cushion Covers/Bedsheets
9. Geomatics Engineering - Mathematical Problems in it
10. Building Technology - Mathematics behind construction of monuments/temples/buildings

General Instructions –

1. Students will prepare one model or research paper on any one of the topics given .
2. Students will explain the model and mathematical principle / laws behind it.
3. They can highlight their creativity by –
 - a) Identifying issues/ knowledge gaps
 - b) Challenges faced
 - c) Create Awareness
 - d) Identify Solutions
 - e) Futuristic Vision

This provides an opportunity to students to exhibit their creative skill, develop the ability to think critically about the world around us.

Note – Projects/ Models should be handmade. Eco-friendly materials should be used.

S.No.	SUBJECT	NAME OF THE TEACHER	HOLIDAY HOMEWORK
3.	PHYSICS	Ms. Niru Sabharwal	<ol style="list-style-type: none"> 1. To complete practical file 2. To choose a project related to syllabus and collect information about it <p>Assignments are uploaded on the portal for the following chapters:</p> <ol style="list-style-type: none"> 1. Chapter 1 - Electric Charges and Fields 2. Chapter 2 - Electrostatic Potential and Capacitance <p>The students are required to complete the assignments in their registers and submit it after the summer vacation.</p>
4.	CHEMISTRY	Ms. Madhupreet Kaur	<ol style="list-style-type: none"> 1. Make a project based on scientific investigations involving experimentation and collecting information from other sources. 2. Complete the practical file as per the experiments given. 3. Revise the salt scheme for qualitative analysis of a given salt. <p>Assignments are uploaded on the portal for the following chapters:</p> <ol style="list-style-type: none"> 1. Haloalkanes and Haloarenes 2. Alcohols, Phenols and Ethers <p>The students are required to complete the assignments in their registers and submit it after the summer vacation.</p>
5.	BIOLOGY	Ms. Anie Benny	<ol style="list-style-type: none"> 1. Complete the practical file as per the experiments given. 2. Modify the project as per discussed in the class. (Add more pictures and data's related to the topics. <p>Case study is must for project on diseases) students whose topics are not finalized will contact me for discussion and finalisation of topics.</p> <p>Assignments are uploaded on the portal for the following</p>

			<p>chapters:</p> <ol style="list-style-type: none">1. Sexual reproduction in plants2. Sexual reproduction in animals3. Reproductive health <p>The students are required to complete the assignments in their registers and submit it after the summer vacation.</p>
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COMPULSORY ACTIVITIES FOR STUDENTS OF SCIENCE STREAM – MODEL MAKING

THEME: SUSTAINABLE DEVELOPMENT GOALS

SUB-THEME:

SDG 7- Affordable and Clean Energy

SDG 9- Industry Innovation & Infrastructure

SDG 11- Sustainable Cities and Communication

SDG 12- Responsible Consumption and Production

SDG 13- Climate Action

General Instructions –

1. Project/Model/Research Paper should be handmade.
2. Eco-friendly materials should be used.
3. Students will prepare one model on any one of the topics given under Subtheme.
4. Students will explain the model and scientific principle behind it.
5. They can highlight their creativity by –
 - a) Identifying issues/ knowledge gaps
 - b) Challenges faced
 - c) Create Awareness
 - d) Identify Solutions
 - e) Futuristic Vision

This provides an opportunity to students to exhibit their creative skill, develop scientific temper and scientific attitude

Note – Projects/ Models should be handmade. Eco-friendly materials should be used. No thermocol.

S.No.	SUBJECT	NAME OF THE TEACHER	HOLIDAY HOMEWORK
6.	COMPUTER SCIENCE	Mr. Mohan Singh	<p>Complete the practical file as:</p> <ol style="list-style-type: none"> 1. Write the functions for <ol style="list-style-type: none"> a) Create a text file and write text b) Append the text file c) Read the text file using read(), find no of words, No of upper characters, word starting/ending with vowels, no of digits and no of special characters d) Read the text file using readline(), find no of words, No of upper characters, lines starting/ending with vowels, no of digits and no of special characters e) Display the text file f) Search a word from text file 2. Write functions for CSV and Binary file of the following data: emp_no,name,phone_no,salary,department, <ol style="list-style-type: none"> a) Create file and write data b) Append the file c) Read the data d) Display data in proper format e) Search by phone_no/ department/name <p>Assignments are uploaded on the portal for the following chapters:</p> <ol style="list-style-type: none"> 1- revision python 2- functions 3-Data file handling - Text, csv and binary <p>The students are required to complete the assignments in their registers and submit it after the summer vacation.</p>
7.	ACCOUNTANCY	Ms. Vandana Shah	<p>Collect the Annual Report of any Company for the year ending March 31 st, 2023 (Statement of Profit and Loss, Balance Sheet, Notes to Account for Segment Analysis, Cash Flow Statement). Write information relating to the Company's management, logo, products etc. on A4</p>

			<p>Sheets.(5 Sheets)</p> <p>Assignments are uploaded on the portal for the following chapters:</p> <ol style="list-style-type: none"> 1. Financial statements of a company 2. Financial Analysis 3. Accounting Ratios 4. Accounting for Partnership Firms—Fundamentals 5. Goodwill— Nature and Valuation <p>The students are required to complete the assignments in their registers and submit it after the summer vacation.</p>
8.	BUSINESS STUDIES	Ms. Divya Sharma	<p>(a) Project on principles of management by Henry Fayol, Students shall choose one organization , prepare the questionnaire based on 14 principles and implement it by conducting field study .</p> <p>(b)Project in Marketing Management , students will be designing a brand with brand name and logo , pricing and physical distribution strategies and developing advertising campaigns for it.</p> <p>Assignments are uploaded on the portal for the following chapters:</p> <p>Chapter 1 : Nature and significance of management Chapter 2 : Principles of Management Chapter 11 : Marketing Management</p> <p>The students are required to complete the assignments in their registers and submit it after the summer vacation.</p>
9.	ECONOMICS	Mr. Manoj Aggarwal Ms. Shubham Arora	<ul style="list-style-type: none"> • Practice 1 markers (MCQs, Assertion-Reason, Statement based questions, Case based questions, Source based questions, match the following, etc) of all the chapters covered in class. • Also, practice the numericals uploaded as an assignment. <p>Assignments are uploaded on the portal for the following</p>

			<p>chapters: MACRO ECONOMICS Ch-1 Money and Banking Ch-2 Government Budget and the economy INDIAN ECONOMIC DEVELOPMENT Ch-1 Indian economy on the eve of independence Ch-2 Indian economy (1950-1990) The students are required to complete the assignments in their registers and submit it after the summer vacation.</p>
10.	POLITICAL SCIENCE	Ms. Ritu Anand	<p>1) Project files to be prepared by the students for board exams practical. (To be assessed for 20 marks project work as per the guidelines of CBSE)</p> <p>Specification for Project file to be prepared for board exams</p> <p>a) Individual Projects to be prepared as per the topics of your current syllabus.</p> <p>b) The project should be inter-disciplinary covering the other branches of Humanities like History, Geography, Economics, Sociology.</p> <p>c) Students are expected to conduct research work and show evidences for their research work for example they can conduct surveys, interviews, group discussions etc. ,show recordings as evidence in project</p> <p>d) Data related to topics should not be just taken from Google& Wikipedia. Students are requested to read relevant books, journals, magazines, newspaper related to their topics.</p> <p>SOME SUGGESTED TOPICS FOR PROJECT WORK ARE:-End of Bipolar World</p>

			<ol style="list-style-type: none"> 1. Niti Aayog 2. Partition Of India 3. Global Islamic Terrorism 4. Operation Bluestar 5. Integration of Kashmir 6. Indian Politics – Trends and Development 7. Integration of Princely States of India 8. Rise and Downfall of Congress 9. Rise of BJP- With special reference to NDA 10. South Asia and Contemporary world order 11. New Centers of Power 12. India as new centre of power 13. Revival of Post-Communist Nations- With special reference to Russia 14. Split of Congress – 1969 15. Democratic Resurgence in India 16. Emergency in India -1975 17. Separatist groups of India – Maoist, Naxalism, Khalistan <p>2) Map file to be prepared by the students on all the maps given in the books. Reference link shall be shared</p> <p>Assignments are uploaded on the portal for the following chapters:</p> <ol style="list-style-type: none"> 1. END OF BIPOLARITY 2. ALTERNATE CENTRES OF POWER <p>The students are required to complete the assignments in their registers and submit it after the summer vacation.</p>
11.	SOCIOLOGY	Ms. Aakanksha Bisht	<p>(1) Prepare a research based project file for a contemporary Social Issue. List of topics is already given in the class.</p> <p>(2) Carry out the research in a detailed manner. Strictly</p>

			<p>follow the given format with proper methodology and presentation of secondary evidence.</p> <p>(3) Contextualize your analysis of the topic using proper statistical tools(bar graph , pie charts)</p> <p>* Note:- Do the Project work on A-4 SIZE SHEETS, in a proper project file .</p> <p>Assignments are uploaded on the portal for the following chapters: Chapter 1 : Structural change Chapter 2 : Cultural Change The students are required to complete the assignments in their registers and submit it after the summer vacation.</p>
12.	PSYCHOLOGY	Ms. Harshita Arora	<p>The students are to complete their practical files.</p> <p>(A.) Students have to administer two practicals listed below: 1.Practical I- RSPM (Raven’s Standard Progressive Matrices – Test to measure Intelligence) 2.Practical II- AISS (Adjustment Inventory for School Students – To understand adjustment level of students)</p> <p>(B.) Development of Case Profile</p> <p>Students have to prepare TWO files i.e, one for the practical file the other one for case profile. All the required material will be shared in the WhatsApp group.</p> <p>Assignments are uploaded on the portal for the following chapters: 1. Chapter 1: Variations in Psychological Attributes 2. Chapter 2: Self and Personality The students are required to complete the assignments in</p>

			their registers and submit it after the summer vacation.
13.	PHYSICAL EDUCATION	Mr. Girish	<p>1. Complete your practical File. Practical file shall include-</p> <p>Practical 1 - Fitness test administration (SAI Khelo India Test)</p> <p>Practical 2: - Procedure for Asanas, benefits and Contraindication for any two asanes for each lifestyle disease (Obesity, diabetes, hypertension & back pain)</p> <p>Practical 3 - Anyone IOA recognised sports /game of your choice. Labeled diagram of field and equipment. Also mention it's rules, terminologies & Skills</p> <p>2. Frame at least 20 Multiple Choice questions with answers from Unit 1 and 2 in your registers. Assignments are uploaded on the portal for the following chapters:</p> <ol style="list-style-type: none"> 1. Management of sporting events 2. Children and women in sports <p>The students are required to complete the assignments in their registers and submit it after the summer vacation.</p>
14.	INFORMATICS PRACTICES	Ms. S.Poornima	<ol style="list-style-type: none"> 1. Complete the practicals of Series and Matplotlib in Practical File. Questions will be shared in the class. 2. Think of a management based project topic to be coded using Pandas and Matplotlib. Prepare a synopsis which should have the following headings- <ol style="list-style-type: none"> a) Title b) Description of Project c) Features/Functionalities of the project d) Hardware and Software used <p>This project can be prepared in a pair of two or group of three. Topic should not be repeated in any groups.</p>

			<p>Assignments are uploaded on the portal for the following chapters:</p> <ol style="list-style-type: none">1. Pandas - I - Series2. Plotting with PyPlot3. MySQL Revision Tour <p>The students are required to complete the assignments in their registers and submit it after the summer vacation.</p>
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