

APEX PUBLIC SCHOOL

Sant Nagar, Burari, Delhi

HOLIDAY HOMEWORK – 2024

CLASS XII

| S.No. | Subject | Details |
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| 1. | ENGLISH | <p><u>English-Literature</u> Write each of the following questions in 100-120 words.</p> <ul style="list-style-type: none">• How does the story “The Last Lesson” by Alphonse Daudet portray the themes of nationalism and identity?• How did ‘The World’ help Charley to confirm his doubts regarding the existence of a third level?• In the last line of the poem, ‘My Mother at Sixty-six’, the word ‘smile’ is repeated three times. What is its significance?• Bring out the poetic devices used in the poem.• Desire, determination and diligence lead to success. Explain the value of these qualities in the light of Douglas’ experience in “Deep Water”. <p><u>English-Writing</u> Read the English newspaper daily for 15 days. Paste any one news article along with pictures and paste it in your Scrapbook with Day, Date and Time.</p> <p><u>Notice Writing</u> Write on any 2 topics.</p> <ul style="list-style-type: none">• You are Ruhi/Rahul, head girl/boy of ABC convent school. Your school is going to organize an inter-school singing competition. Write a notice for your school notice board inviting names of all the interested students.• You are the Head of the Literature Club in your school. Write a notice informing the students that a book fair is being organised on the occasion of the World Book Day.• You are Asma/Ashish, the head girl/boy of XYZ international school. Your school is soon going to publish the annual magazine next month. Write a notice for the notice board of your school inviting students to submit write-ups. |

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| | | <p>Letter Writing Write on any 2 topics.</p> <ul style="list-style-type: none"> You are a resident of Shivaji Nagar Pune. You are concerned about the increasing number of road mishaps in your city. Write a letter to the editor of a local magazine “Jan Chetna” highlighting the problem and suggesting measures to check the problem. Highlight the importance of proper garbage disposal with an aim to create awareness among the city residents. Write a letter regarding the same to the editor of a local daily Hindustan Times. You are Rubal of Shakti Nagar, Delhi. You are Chahat / Chetan, an IT Professional. You want to raise awareness about the rising incidences of cyber crimes. Write a letter to the editor of Cyber magazine “Info news”, highlighting the issue and suggesting measures to prevent such happenings. |
| 2. | PHYSICS | <p>Q. Make an investigatory project according to your roll numbers.</p> <p style="text-align: center;">Roll no. 1 to 5</p> <p>1. To study various factors on which the internal resistance/EMF of a cell depends.</p> <p style="text-align: center;">Roll no. 6 to 10</p> <p>2. To study the variations in current flowing in a circuit containing an LDR because of a variation in</p> <p>(a) the power of the incandescent lamp, used to 'illuminate' the LDR (keeping all the lamps at a fixed distance).</p> <p>(b) the distance of a incandescent lamp (of fixed power) used to 'illuminate' the LDR.</p> <p style="text-align: center;">Roll no. 11 to 15</p> <p>3. To find the refractive indices of (a) water (b) oil (transparent) using a plane mirror, an equiconvex lens (made from a glass of known refractive index) and an adjustable object needle.</p> <p style="text-align: center;">Roll no. 16 to 20</p> <p>4. To investigate the relation between the ratio of</p> <p>(i) output and input voltage and</p> <p>(ii) number of turns in the secondary coil and primary coil of a self-designed transformer.</p> <p style="text-align: center;">Roll no. 21 to 25</p> <p>5. To investigate the dependence of the angle of deviation on the angle of incidence using a hollow prism filled one by one, with different transparent fluids.</p> <p style="text-align: center;">Roll no. 26 to 30</p> |

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| | | <p>6. To estimate the charge induced on each one of the two identical Styrofoam (or pith) balls suspended in a vertical plane by making use of Coulomb's law.</p> <p style="text-align: right;">Roll no. 31 to 35</p> <p>7. To study the factor on which the self-inductance of a coil depends by observing the effect of this coil, when put in series with a resistor/(bulb) in a circuit fed up by an A.C. source of adjustable frequency.</p> <p style="text-align: right;">Roll no. 36 onwards</p> <p>8. To study the earth's magnetic field using a compass needle -bar magnet by plotting magnetic field lines and tangent galvanometer.</p> |
| 3. | CHEMISTRY | <p>Complete the text book questions of all organic chapters Solve the board questions assignment Learn daily ten assignment questions and keep the record Complete the record file ((5 experiments) Complete the project work</p> |
| 4. | BIOLOGY | <p>1) Write short notes on:</p> <ol style="list-style-type: none"> Human Genome Project Microbes as friend or foe Central Dogma of Protein Synthesis Drugs and Alcohol Abuse Tools used in Recombinant DNA Technology <p>2) Discuss how the current interest in the genetic manipulation of microbes, plants and animals has raised serious ethical issues. Elaborate the measures taken by the government to eradicate the same.</p> <p>3) Do the back exercise of the NCERT textbook for chapters 5, 7, 8, and 9</p> |
| 5. | MATH | <p>LAB MANUAL ACTIVITY NO.</p> <ol style="list-style-type: none"> verify that the relation R in the set L of all lines in a plane, defined by $R = \{(l, m) : l \perp m\}$ is symmetric but neither reflexive nor transitive. To verify that the relation R in the set L of all lines in a plane, defined by $R = \{(l, m) : l \parallel m\}$ is an equivalence relation. To demonstrate a function which is not one-one but is onto. To draw the graph of $-\sin x$, using the graph of $\sin x$ and demonstrate the concept of mirror reflection (about the line $y = x$). To explore the principal value of the function \sin^{-1} using a unit circle. To sketch the graphs of a^x and $\log_a x$, $a > 0$, $a \neq 1$ and to examine that they are mirror images of each other. To establish a relationship between common logarithm (to the base 10) and natural logarithm (to the base e) of the number x. |

| | | <p>8. To find analytically the limit of a function $f(x)$ at $x = c$ and also to check the continuity of the function at that point.</p> <p>9. To verify that for a function f to be continuous at given point $x=0$ (ϵ is arbitrarily small provided. $\delta > 0$ sufficiently small).</p> <p>10. To demonstrate a function which is one-one but not onto.</p> <p>WORKSHEET OF CHAPTER - 1 TO 5.</p> | | | | | | | | | | | | | | | | | | |
|--------|--|---|--------|----------------|--------------|---|------------------------------|------------------------------|---|----------------------------------|------------------------------|---|--|--------------------------|---|-------------------------------------|--------------------------|---|---------------------------------------|---------------------------|
| 6. | COMP. SCI. | <ol style="list-style-type: none"> 1. Read the following chapters from text book: <ol style="list-style-type: none"> a. Python Revision Tour – I b. Python Revision Tour – II c. User Defined Functions d. Python Modules and Libraries 2. <u>Do given Practical worksheet and submit printouts for the Practical Record File.</u> 3. Complete the exercise and assignment questions of the above-mentioned chapters from book. 4. Solve the assignments given on class group. 5. Revise the theoretical concepts of programming 6. Prepare all chapters for Periodic Test I 7. Read the Chapter Networking and Concepts which will be started after summer break. 8. Plan for the topic of the project, group members in the project and submit the same after summer break. 9. Prepare Activity/Practical file containing 5 questions each from following topics: <ol style="list-style-type: none"> a. Conditional Programming and Iterative Programming b. Lists, Tuples and Dictionary c. User defined functions d. Data structure (stack) | | | | | | | | | | | | | | | | | | |
| 7. | ACCOUNTANCY | Prepare assignment which will be shared in group separately. | | | | | | | | | | | | | | | | | | |
| 8. | ECONOMICS | <ol style="list-style-type: none"> 1. Revise the work done in class. 2. Solve Work sheet which will be shared in group separately. 3. Prepare the project as per instruction given: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>S. No.</th> <th>Project topics</th> <th>Roll numbers</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Govt. budget & its component</td> <td>1, 6, 11, 16, 21, 26, 31, 36</td> </tr> <tr> <td>2</td> <td>Role of RBI in control of credit</td> <td>2, 7, 12, 17, 22, 27, 32, 37</td> </tr> <tr> <td>3</td> <td>Self-help group in any two states in India</td> <td>3, 8, 13, 18, 23, 28, 33</td> </tr> <tr> <td>4</td> <td>Livestock- back bone of rural India</td> <td>4, 9, 14, 19, 24, 29, 34</td> </tr> <tr> <td>5</td> <td>Micro & small-scale industry in India</td> <td>5, 10, 15, 20, 25, 30, 35</td> </tr> </tbody> </table> | S. No. | Project topics | Roll numbers | 1 | Govt. budget & its component | 1, 6, 11, 16, 21, 26, 31, 36 | 2 | Role of RBI in control of credit | 2, 7, 12, 17, 22, 27, 32, 37 | 3 | Self-help group in any two states in India | 3, 8, 13, 18, 23, 28, 33 | 4 | Livestock- back bone of rural India | 4, 9, 14, 19, 24, 29, 34 | 5 | Micro & small-scale industry in India | 5, 10, 15, 20, 25, 30, 35 |
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Guidelines for Project Work in Economics (Class XII)

The objectives of the project work are to enable learners to:

- probe deeper into theoretical concepts learnt in class XII
 - analyse and evaluate real world economic scenarios using theoretical constructs and demonstrate the learning of economic theory
 - follow up aspects of economics in which learners have interest, develop the communication skills to argue logically
- The expectations of the project work are that:

- learners will complete only ONE project (ONE TOPIC) in the academic session
- project should be of 4,500-5,000 words (excluding pictures, diagrams & graphs),

• only hand-written Scope of the project:

• Learners may work upon the following lines as a suggested flow chart:

- 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

Expected Checklist by the students:

- Introduction of topic/title
- Details of the topic
- Impact on the Indian economy
- Advantages/Pros of the economic event or happening
- Disadvantages/Cons of the economics event or happening
- Major criticism related to the topic if any
- Government steps or initiative
- Data analysis if any
- Social Media buzz
- Media coverage (Articles in print media)
- Students' own views or perceptions or opinion from the learning or the work
- Identifying the causes, consequences and/or Remedies of various stakeholders and effect on each of them
- Advantages and disadvantages of situations or issues identified
- Short-term and long-term implications of economic strategies suggested in the course
- Validity, reliability, appropriateness and relevance of data used for presentation in the project file
- Presentation and writing that is succinct and coherent in project file
- Final spiral binding
- Conclusion
- Citation of the materials referred to, in the file in footnotes, resources section, bibliography etc.

| | | <p>Marking Scheme: Marks are suggested to be given as –</p> <ol style="list-style-type: none"> 1. Relevance of the topic (3M) 2. Knowledge Content/Research Work (6M) 3. Presentation Technique (3M) 4. Viva-Voce (8M) | | | | | | | | |
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| <p>9.</p> | <p>BUSINESS STUDY</p> | <p>Prepare the project from any one of the below:</p> <ol style="list-style-type: none"> I. Project One: Elements of Business Environment II. Project Two: Principles of Management III. Project Three: Marketing <p>Guidelines for the project is given at the back of your textbook (Poonam Gandhi) *Also ,I am sending you the pdf file that will be helpful to you to make your project. *Use printed A4 sheets for the project and compile them neatly in a folder.</p> <p>Complete the project work as discussed in class and as per CBSE guidelines.</p> <ol style="list-style-type: none"> 2. Revise the Chapters-1,2,3 and 4 for PT-1. 3. Solve Competency, choice and case based questions in the notebook. <p>Match the concept of management in column I with their respective definition in column II:</p> <table border="1" data-bbox="571 891 1316 1120"> <thead> <tr> <th>Column I</th> <th>Column II</th> </tr> </thead> <tbody> <tr> <td>A. Process</td> <td>(i) Doing the task correctly and with minimum cost.</td> </tr> <tr> <td>B. Efficiency</td> <td>(ii) Finishing the giving task on time.</td> </tr> <tr> <td>C. Effectiveness</td> <td>(iii) The primary functions or activities that management performs to get things done.</td> </tr> </tbody> </table> <ol style="list-style-type: none"> a. (i), (ii), (iii) b. (iii), (i), (ii) c. (iii), (ii), (i) d. (i), (iii), (ii) <p>2. Hero Ltd.'s target is to produce 10,000 shirts per month at a cost of ₹ 150 per shirt. The Production Manager was able to produce 10,000 shirts at a cost of ₹ 140 per shirt but not within the stipulated time. As a result, there was loss of revenue. In this case the Production Manager is:</p> <ol style="list-style-type: none"> a. effective but not efficient b. efficient but not effective c. Neither effective nor efficient d. All of these <p>3. Which is not the objective of scientific management?</p> <ol style="list-style-type: none"> a. Mental change b. Proper selection c. Best method of doing work d. Reduce labour turnover | Column I | Column II | A. Process | (i) Doing the task correctly and with minimum cost. | B. Efficiency | (ii) Finishing the giving task on time. | C. Effectiveness | (iii) The primary functions or activities that management performs to get things done. |
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| <p>10.</p> | <p>IP</p> | <ol style="list-style-type: none"> 1. Read the following chapters from text book: <ol style="list-style-type: none"> a. Python Pandas – I Series DataFrame csv b. Database Management and SQL (Class XI Syllabus) 2. <u>Do given Practical worksheet and submit printouts for the Practical Record File.</u> 3. Complete the exercise and assignment questions of the above chapters from book. <ol style="list-style-type: none"> a. Revise the theoretical concepts of programming and MySQL (Class XI Syllabus) 4. Prepare all chapters for Periodic Test I 5. Read the Chapter Networking and Concepts which will be started after summer break. 6. Plan for the topic of the project, group members in the project and submit the same after summer break. 7. Prepare Acitivity/Practical file containing 5 questions from topic: <ul style="list-style-type: none"> Series DataFrame csv NumPy |
| <p>11.</p> | <p>HISTORY</p> | <p>•Choose any one topic for the project from the given topics</p> <ol style="list-style-type: none"> 1. The Indus Valley Civilization-Archaeological Excavations and New Perspectives 2. The History and Legacy of Mauryan Empire 3. “Mahabharat”- The Great Epic of India 4. The History and Culture of the Vedic period 5. Buddha Charita 6. A Comprehensive History of Jainism 7. Bhakti Movement- Multiple interpretations and commentaries. 8. The Mystical Dimensions of Sufism 9. The Global legacy of Gandhian ideas 10. The Architectural Culture of the Vijayanagar Empire 11. Life of women in the Mughal rural society 12. Comparative Analysis of the Land Revenue Systems introduced by the Britishers in India 13. The Revolt of 1857- Causes; Planning & Coordination; Leadership, Vision of Unity 14. The Philosophy of Guru Nanak Dev 15. The Vision of Kabir 16. An insight into the Indian Constitution 17. Comparative study of Stupas and Pillar edict 18. Comparative study of Mughal and Vijayanagar Architecture |

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| | | <ul style="list-style-type: none"> • Complete the question and answers and map activity • Revise the chapters 1 and 2 |
| 12. | POL. SCIENCE | <p>1. Prepare a project according to CBSE guidelines. # Ring file to be used # Use white or light coloured interleaf sheets Suggested topics:</p> <ol style="list-style-type: none"> 1. The end of Bipolarity 2. New centres of power (ASEAN,EU and SAARC) 3. Contemporary South Asia (Pakistan,Bangladesh, Nepal, Sri Lanka) 4. United Nations 5. Globalization 6. Challenges of Nation Building 7. Any other topic from the syllabus. <p>2. Revise chapter-1,2 and 3</p> |
| 13. | SOCIOLOGY | <p>"The function of sociology, as of every science, is to reveal that which is hidden."—Pierre Bourdieu</p> <p>Prepare and complete your sociology project according to your individual topic. The following instructions need to be followed while making the project:</p> <ol style="list-style-type: none"> 1. Write the project in your own handwriting. 2. Add pictures, photographs and press release wherever necessary. 3. Numbering should be done on each page. 4. The following sequence must be followed: <ul style="list-style-type: none"> ● Cover page ● Acknowledgement ● Index ● Statement of purpose. ● Hypothesis ● Choice of technique ● Collection and analysis of data ● Limitation ● Conclusion ● Bibliography. <p>(Make sure you start each heading from a fresh page and maintain the same sequence as shared here.)</p> <ul style="list-style-type: none"> • It should be in your handwriting. • Add your creativity to the project. • Include pictures and handwork where needed. <p>(YOU MAY REFER TO CHAPTER NO. 7 BOOK 1ST FOR ASSISTANCE IN YOUR PROJECT WORK.)</p> |

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| | | <p>Note: There is no need to do the binding now. Final binding will be done after verification by the subject teacher after the summer break.</p> <ul style="list-style-type: none"> ■ Complete your sociology notebook. ■ Revise the chapters done in class and prepare for PA 1st. |
| 14. | LEGAL STUDY | <p>Learn and revise chapter 1 Complete the written work.</p> |
| 15. | PSYCHOLOGY | <ol style="list-style-type: none"> 1. Revise chapter 1 and 2 for PA-I 2. Read chapter-2 again and do question-answer in your fair notebook. 3. Kindly complete two practicals done in class in practical file neatly. <ul style="list-style-type: none"> • Self-concept questionnaire • Maudsley personality inventory 4. Complete the project file according to the topics already allotted to you in class. <ul style="list-style-type: none"> • Acknowledgement • Certificate • Index • Introduction • Content • Case profile • Case History • Mental Status Examination • Bibliography • Teacher's Remark |
| 16. | PAINTING | <ol style="list-style-type: none"> 1. Read thoroughly Chapter no -1 and 2. "The Rajasthani School Of Painting" And "The Pahari School Of Painting" . 2. 2ⁿ Paintings Nature and Object Study. <ol style="list-style-type: none"> 1. Size A3, 2. Size Half Imperial. 3. 2 Composition Painting <ol style="list-style-type: none"> 1. Size A3, 2. Size Half Imperial. |
| 17 | PHY. EDUCATION | <p>Complete your practical file and Notebook.</p> |