

**AIR FORCE GOLDEN JUBILEE INSTITUTE
HOLIDAY HOMEWORK
CLASS-XII (2025-26)**

ENGLISH

PROJECT AND VIVA VOCE (5+5 marks)

INTERVIEW BASED RESEARCH

Make a project in a file on any one topic :

1. Reading habits among school students
2. Impact of Social Media on youth
3. Severe effects of Climate Change
4. Poverty and hunger in India

Methodology

1. Based on the topic selected, prepare a questionnaire comprising 10 questions
2. Interview 5 people (neighbours/friends/relatives)
3. The Interview can be conducted online/offline/telephonically
4. Interviewees to fill the questionnaire along with their names. Can include pie chart, bar graph or table
5. Based on the data collected, write an analytical report

Your Project file should have

- Name, Class, Roll no and Subject
 - Topic to be written
 - Content page
 - Statement of purpose/objectives/goals
 - Sample Questionnaire
 - Questionnaires of 5 interviewees with names/occupation etc.
 - Certificate of completion under the guidance of the teacher.
- The 800-1000 words Report.
 - If possible, add photographs /pie chart/ graph
 - List of resources/bibliography.

The following points will be kept in consideration while assessing the project portfolios:

- Quality of content of the project
- Accuracy of information
- Adherence to the specified timeline

- Content in respect of (spellings, grammar ,punctuation)
- Clarity of thoughts and ideas
- Creativity
- Knowledge and experience

The date for the Viva will be given in July.

PHYSICS

Research and select a topic for CBSE INVESTIGATORY PROJECT for board practical examination. The topic should be such that it either is a new concept or investigates a previously established concept of class 12 level(refer to syllabus 2025-2026)

Discuss the topic with your Physics teacher ,get the approval for working on the topic ,working model for the topic can be made after the school reopens under the guidance of your teacher.

Revise Chapter 1,2 and 3 for periodic test 2.

CHEMISTRY

DATE OF SUBMISSION: 5/7/25

1. Complete all back exercise question of Solutions (unit-1), electrochemistry(unit- 2), D and f Block elements(unit-4) from NCERT back exercise in your HW register.
2. Complete the written part of the approved project in the discussed systematic manner. Project can be written by hand or typed. Observations calculations and result to be written after completing the project in chemistry lab.
3. Total of 8 salt samples are to be written in practical file. If you have not yet analysed 8 samples in lab, then you can select the remaining from the list given below
 - a) BaCl_2
 - b) NH_4SO_4
 - c) $\text{Pb}(\text{NO}_3)_2$
 - d) MgSO_4
 - e) $\text{Zn}(\text{SO}_4)_2$
 - f) MnCl_2
 - g) $(\text{NH}_4)_3\text{PO}_4$
 - h) SrCl_2
 - i) $\text{Al}_2(\text{SO}_4)_3$
 - j) ZnCO_3
 - k) CaCO_3
 - l) MgCO_3
 - m) MnSO_4
 - n) $\text{CH}_3\text{COONH}_4$

BIOLOGY

INVESTIGATORY PROJECT

Prepare the Biology investigatory project on any of the topic selected related to class XII Biology syllabus.

The investigatory project must be hand written.
Format for the investigatory project:

- (i) **Title of the investigatory project:** Write the title of the project, for example, 'Inheritance pattern of eye colour'.
- (ii) **Objectives:** Express as clearly as possible the effect of one variable that the experiment is designed to investigate.
- (iii) **Materials needed:** This might be just a list, or a diagram if a particular piece of apparatus was used.
- (iv) **Method:** Describe the procedure stepwise including the precautions taken, if any.
- (v) **Result:** A suitable chart or table for recording and organising your readings or measurements should be made out before you start the experiment.
- (vi) **Analysis and interpretation:** Observation data are factual, and may not be as expected by you.
- (vii) **Discussion:** Discuss briefly the implication of your results and suggest extensions of any kind that can be undertaken.
- (viii) **Conclusion:** In view of the results obtained and related work done on the topic of the project, write conclusion briefly.
- (ix) **References:** Any work related to the project which you have come across through books/articles or any other source should be written as reference, for example: Michael Michalco (2001), Cracking Creativity, Berkeley, Ten Speed Press. This write up is meant to train the students in scientific methods. In other words, it accentuates the spirit of enquiry and investigation in young minds.

MATHS

Solve questions on first four chapters from previous year board papers (2022, 23, 2024-25) and last two SQP's

COMPUTER SCIENCE

1. Complete assignment no 4 and 5 in your assignment notebook.
2. Complete the soft copy of the project allocated to you. The soft copy to be shown in the first practical period of July.

Assignment No 4 **Topic : Binary and csv Files**

1. Differentiate between the following:

- a. Binary file and text file
 - b. load() and dump()
2. A binary file, STUDENT.DAT contains student records [roll no, name, marks]. Write a function CopyStudents() that copies the records with marks more than 75 from STUDENT.DAT to EXCEL.DAT.
3. Write a function to read data from a csv file, book.csv that displays records of those books which have the category as "Thriller". The structure of records is [bookid, bookName, price, author, category]

Assignment No 5

Topic : DBMS and SQL

1. Consider the following tables STORES and SUPPLIERS. Write SQL commands for statements (a) to (d) and give outputs for SQL queries (e) to (h).

Table: STORES

ItemNo	Item	Scode	Qty	Rate	LastBuy
2005	Sharpener Classic	23	60	8	31-Jun-09
2003	Ball Pen 0.25	22	50	25	01-Feb-10
2002	Gel Pen Premium	21	150	12	24-feb-10
2006	Gel Pen Classic	21	250	20	11-Mar-09
2001	Eraser Small	22	220	6	19-Jan-09
2004	Eraser Big	22	110	8	02-Dec-09
2009	Ball Pen 0.5	21	180	18	03-Nov-09

Tables: SUPPLIERS

SCode	SName
21	Premium Stationery
23	Soft Plastics
22	Tetra Supply

- (a) To display details of all the items in the Stores table in ascending order of LastBuy.
- (b) To display ItemNo and names of items of those items from Stores table whose rate is more than 15 rupees.

(c) To display the details of those items whose supplier code is 22 or Quantity in store is more than 110 from the table Stores.

(d) To display minimum rate of items for each Supplier individually as per Scode from the table Stores.

(e) To display Item name and its supplier name

Write the output of the following SQL queries:

(i) **SELECT COUNT(DISTINCT Scode) FROM STORE;**

(ii) **SELECT Rate*Qty FROM STORE WHERE Itemno=2004;**

(iii) **SELECT Item, Sname FROM STORE S, SUPPLIER P WHERE
S.Scode = P.Scode AND ItemNo = 2006.**

(iv) **SELECT MAX>LastBuy) FROM STORE;**

ACCOUNTANCY

INTEGRATED ACTIVITY: As a part of integrated activity make a poster on the topic partnership on A3 size sheet.

Revise and prepare - Complete your work in your Register.

Complete Accountancy worksheet in your Accountancy Register.

Prepare for PT2 - chapter 1 , Chapter 2 and Chapter 3

BUSINESS STUDIES

A) PROJECT WORK

Details of Project Work

1. The Project work will be of 20 marks.
2. Out of 20 marks, 8 marks are to be allotted to viva voce and 12 marks for project work.
3. The project should be an individual project. **The Project can be made on any of the topics given in the syllabus (2025-26).**

B) INTEGRATED ACTIVITY: As a part of integrated activity make a poster on Management.

C) Read and prepare - Complete your notes in your registers.

Prepare for PT 2- Chapter 2 : Principles of Management

Chapter 3: Business Environment

Chapter 4: Planning

ECONOMICS

1. Each student is required to prepare a project report on any one topic from the list provided by the CBSE (as per CBSE guidelines) or any other relevant topic in economics. This project is an important component of your CBSE board assessment and will be evaluated for 20 marks.

A. Project Guidelines

- Project Length: 20–25 pages (including cover, content, bibliography).
- Project should be handwritten only.
- Original Work: Avoid copying directly from the internet or textbooks. Use your own words and analysis.
- Use of Visuals: Charts, graphs, pictures, tables, newspaper cuttings, etc., are encouraged

B. Structure of the Project:

- Cover Page: Title of the project, name, class, roll number, session.
- Acknowledgement
- Certificate (by teacher)
- Index / Table of Contents
- Introduction to the topic
- Need and Objectives of the Study
- Methodology: How data was collected (survey, secondary research, etc.)
- Presentation of Data: Tables, charts, graphs (if applicable)
- Analysis and Interpretation
- Findings and Conclusion
- Bibliography
- Appendix (if any)

2. Prepare for UT-2 examination.

POLITICAL SCIENCE

D) PROJECT WORK

Details of Project Work

1. The Project work will be of 20 marks.

2. Out of 20 marks, 10 marks are to be allotted to viva voce and 10 marks for project work.

3. The project should be a individual project. **The Project can be made on any of the topics given in the syllabus (2025-26) .**

4. The suggestive list of activities for project work is as follows: -

Role Play, Skit, Presentation, Model, Field Survey, Mock Drills/Mock Event etc.

Neat and presentable project file of minimum 30 pgs can be made.

5. Project research can be based on following checklist:

- a) Introduction to topic / title or details of origin
- b) Identifying the causes, consequences and remedies.
- c) Various related organisations and effect on each of them
- d) Advantages and disadvantages of situations or issues identified
- e) short term and long-term implications
- f) Validity, reliability, appropriateness and relevance of data to contemporary development should be used for research work and presentation
- g) Presentation and writing
- h) Citation of the material referred in bibliography.

6. Use pictures, graphs, maps, newspaper clippings to make project interesting in file presentation.

Steps involved in the conduct of the project: Students may work upon the following lines as a suggested flow chart:

- Choose a Title/Topic Need of the Study
- Objective of the Study
- Hypothesis

- Content -Timeline, Maps, Mind maps, Pictures, etc.
- (Organization of Material/Data Present Material/Data)
- Analysing the Material/Data for Conclusion
- Draw the Relevant Conclusion
- Bibliography

(Art integrated poster, front page, certificate, acknowledgement, objective, content, chapters, conclusion , bibliography)

Suggested topics:

CLASSXII

1. NAM- 1961 to present times.
2. Division of Germany with special focus on the construction and dismantling of the Berlin Wall.
3. CIS-Central Asian Republics
4. Disintegration of USSR with special focus on Gorbachev.
5. Arab Spring
6. Cover the negative as well as positive aspects of relationship between India and the following countries. Focus on any one of the following (current updates should be highlighted):
 - a.Relationship between India and Russia
 - b.Relationship between India and China
 - c.Relationship between India and Pakistan
 - d.Relationship between India and Bangladesh
7. ASEAN
8. European Union and BREXIT
9. BRICS
- 10.SAARC
- 11.India's Nuclear Policy
- 12.United Nations with focus on India's candidature in Security Council.
- 13.UN Agencies – UNICEF, UNESCO, WHO
- 14.Pandemics: Covid 19- Its global impact (focus on worldwide cooperation and preparedness along with controversies (please collect newspaper clippings for the same)
- 15.Partition of India-Theory behind it and its legacy

16. Comparison between NITI AAYOG and Planning Commission and their contribution in India's Development.
17. Election 2019- Rise of BJP and Downfall of Congress (1989-2019).
18. Imposition of Emergency in India
19. NDA III and NDA IV – Social and Economic welfare programmes.

E) INTEGRATED ACTIVITY: As a part of integrated activity make a poster, painting or collage depicting the title of your research project on A4 size sheets.

F) Read and prepare - Complete your notes in your registers. Prepare for UT 1- chapter 2 : Contemporary center of power

Chapter 3: Contemporary South Asia

Chapter 4: International Organization

HISTORY

1. Each student is required to prepare a project report on any one topic from the list provided by the CBSE (as per CBSE guidelines) which has been allocated to every student and uploaded on parent portal. This project is an important component of your CBSE board assessment and will be evaluated for 20 marks.

Project Guidelines

- Project Length: 25–30 pages.
- Project should be handwritten only.
- Original Work: Avoid copying directly from the internet or textbooks. Use your own words and analysis.
- Use of Visuals: Hand made images and pictures, etc., are encouraged

2. Prepare for UT-2 examination.

PSYCHOLOGY

CASE PROFILE FILE :

- Case profile is an in depth analysis of a person .
- You are required to choose a person on whom you want to do your case study. The person should be from 14-18 years of age and willing to cooperate with you. You may choose a person who is gifted/ has some physical disability / lower socio economic background etc .

FILE WORK

- INDEX (LEAVE IT BLANK AS OF NOW)
- INTRODUCTION TO CASE STUDY FILE (HEADING)

EXPLAIN CASE STUDY METHOD ; ADVANTAGES AND DISADVANTAGES OF THIS METHOD (3 -4 SIDES)

- PRECAUTIONS TAKEN (VOLUNTARY PARTICIPATION ; INFORMED CONSENT ; DEBRIEFING AND SHARING RESULTS ; CONFIDENTIALITY – REFER TO CLASS 11TH NCERT PSYCHOLOGY BOOK)
- TOOLS USED FOR COLLECTING DATA :
 1. OBSERVATION METHOD (EXPLAIN)
 2. INTERVIEW METHOD (EXPLAIN)
 3. PSYCHOLOGICAL TEST (EXPLAIN)

P.S. :REFER TO CLASS 11TH NCERT BOOK

- REASONS FOR CHOOSING MY SUBJECT
- RAPPORT FORMATION :

A friendly conversation was carried out to make the subject feel at ease . I assured the subject that results would be kept confidential . All of his/her queries related to the study were clarified .

- PRELIMINARIES INFORMATION :

- ❖ NAME
- ❖ AGE
- ❖ GENDER
- ❖ BIRTH ORDER
- ❖ NUMBER OF SIBLING
- ❖ EDUCATION
- ❖ LOCALITY OF RESIDENCE
- ❖ RELIGION
- ❖ PARENTAL EDUCATION AND OCCUPATION

- ❖ FAMILY INCOME
- ❖ SUBJECT MEDICAL HISTORY
- INTROSPECTIVE REPORT
- INTERVIEW :

P.S. : THESE ARE SAMPLE QUESTIONS . YOU ARE REQUIRED TO FRAME YOUR OWN QUESTIONS –SPECIFIC TO YOUR SUBJECT .

- ❖ SUBJECTS INTERVIEW (15 TO 20 QUESTIONS)

EXAMPLES OF QUESTIONS :

1. Who is your role model ?
2. Do you enjoy the company of your family ?
3. What stream you have choosen and why ?
4. How often do you go out with your family ?
5. Do you enjoy your studies?
6. What kind of entertainment you like ?
7. In what kind of environment do you enjoy the most ?
8. What are your hobbies ?
9. Is there any kind of restriction put on you by your family ?
10. Do you feel shy in talking to people in a group ?
11. Do you share your problems with your family
12. What is your aim in life
13. Whom do you trust the most in your family
14. Will you do something that your family objects to ?
15. How much time do you take out for your family
16. Do you trust your friends ?
17. What kind of looks interests you the most ?
18. Are you short tempered ?

- ❖ PARENT INTERVIEW :MOTHER

1. Do you trust your son / daughter ?
2. Do you force him/her to do anything which he/she wouldn't do ?
3. Do you trust his /her friends ?
4. Do you take him/her out on outing regularly ?
5. Do you force him/her in terms of studies?
6. Do you believe in giving pocket money to your child ?
7. Is he/she very moody ?
8. How often do you allow your son/daughter to go out with his/her friends ?
9. Are you satisfied with the company of your friends ?
10. What kind of passion do you see in your child ?
11. Does your child listen to you ?
12. Does he /she hesitate in sharing problems with you ?
13. Have you ever allowed your child to drive your vehicle ?
14. Do you think mobile phone is necessary for your child ?
15. Are you possessive about your child ?
16. What qualities of him / her do you like the most
17. Are you aware of his /her hobbies ?
18. What is his /her attitude towards life ?

PARENT INTERVIEW : FATHER

- ❖ Do you trust your son / daughter ?
- ❖ Do you force him/her to do anything which he/she wouldn't do ?
- ❖ Do you trust his /her friends ?
- ❖ Do you take him/her out on outing regularly ?
- ❖ Do you force him/her in terms of studies?
- ❖ Do you believe in giving pocket money to your child ?

- ❖ Is he/she very moody ?
- ❖ How often do you allow your son/daughter to go out with his/her friends ?
- ❖ Are you satisfied with the company of your friends ?
- ❖ What kind of passion do you see in your child ?
- ❖ Does your child listen to you ?
- ❖ Does he /she hesitate in sharing problems with you ?
- ❖ Have you ever allowed your child to drive your vehicle ?
- ❖ Do you think mobile phone is necessary for your child ?
- ❖ Are you possessive about your child ?
- ❖ What qualities of him / her do you like the most
- ❖ Are you aware of his /her hobbies ?
- ❖ What is his /her attitude towards life ?

FRIEND'S INTERVIEW

1. Since when have you been friends with him /her ?
2. How far do you trust him /her?
3. Do you like his /her company
4. Are you proud of your friend
5. Do you know about his likes and dislikes
6. What is his /her aim in future
7. How often do you meet him /her
8. What do you appreciate the most about him/her ?
9. Is he/she into habit of smoking or drinking ?
10. Does he /she listen to his /her parents ?
11. What kind of sports he likes
12. Whether he/she goes out for parties ?
13. Is he /she satisfied with the pocket money he /she gets
14. Does he/she takes studies seriously

15. Is he /she ready to face challenges in life

- INTERVIEW ANALYSIS
 - ❖ SUBJECT INTERVIEW ANALYSIS (SUMMARY OF RESPONSES THAT YOU HAVE RECIEVED)
 - ❖ SUBJECT'S MOTHER INTERVIEW ANALYSIS
 - ❖ SUBJECT'S FATHER INTERVIEW ANALYSIS
 - ❖ SUBJECT'S FRIEND INTERVIEW ANALYSIS
- OBSERVATION METHOD
 - ❖ REPORT OF SUBJECT'S OBSERVATION

(SHARE HOW HE /SHE IS IN SCHOOL / WITH FRIENDS /WITH PARENTS IE ACCORDING TO YOUR OBSERVATION)

REST OF THE CASE STUDY FILE WORK WILL BE DONE AFTER
SUMMER HOLIDAYS

PHYSICAL EDUCATION

1. Write about your favourite sport, mentioning about its history, fundamental skills, terminologies, dimensions of the court and tournaments along with a labelled diagram.
2. Explain any two asanas for each Lifestyle disease (Asthma, Obesity, Diabetes, Backpain and Hypertension) mentioning its benefit, procedure, and contraindications.
3. Write about all the test items of SAI Khelo India Fitness Test for both the age categories.

***Use only Physical Education practical file.**