

THE ASIAN SCHOOL, DEHRADUN
HOLIDAY HOMEWORK - SUMMER VACATION 2025 FOR CLASS XII

English:

CW notebook & Project file is to be submitted for marking on the day the school reopens after vacation.

VISTAS. (Supplementary Reader) Do self-study of Chapters marked. Write down Central theme of each chapter & answer the questions given below. (Work to be done in English Class-Work Notebook only.)

CH 2.- Tiger King

1. Who was the Tiger King and how did he get this name?
2. What kind of life was enjoyed by crown prince Jung Bahadur till he reached the age of twenty?
3. What did the Maharaja do to find the required number of tigers to kill?
4. Did the Tiger King actually kill the 100th tiger?
5. How did the Tiger King die?

CH 4- The Enemy

- Q 1 : What was his father's chief concern for Sadao?
- Q 2 : Why was Dr Sadao not sent abroad along with the troops?
- Q 3 : Why did the General overlook the matter of the enemy soldier?
- Q 4 : Why did Dr Sadao treat the American soldier even though, it was an unpatriotic act on his part?
- Q 5 : How did Dr Sadao plan the American prisoner's escape?

ASL :- Prepare the following topics (Speaking time :3min)

1. What I would like to do to be famous in the world
2. A childhood memory still fresh in my mind
3. An awkward situation I once found myself in
4. A journey that I would like to make/ go on
5. Why I think my school is cool
6. What I will be ten years from now
7. A leader I'm inspired by
8. Why I like / hate to read newspaper
9. A work of charity that I do/ would like to do
10. My strength and weakness

Project Work: Instructions:

- **Do the following Project Work in a separate file.**
- A4 sized sheets file can be used. Work must be handwritten.
- Use sketch pens for headings. Paste topic relevant pictures as required
- Project portfolio must include a cover page, with title of project, school details/details of student.
- The portfolio of the project must include all the points given in project.

TOPIC: CHILD LABOUR IN INDIA {LOST SPRING}

1. Index
 2. Acknowledgement
 3. Certificate of completion
 4. Objective
 5. Child labour with reference to chapter- Lost Spring (summary)
 6. Lives of children like Saheb and Mukesh
 7. Describe- Seemapuri with pictures
 8. Hazards of bangle making industry
 9. Initiative against child labour by Indian government, various NGOs
 10. SOS Children's Village in India
 11. The child labour prohibition and regulation act, 1986
 12. Ways to eliminate child labour
 13. Bibliography
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Hindi :

परियोजना कार्य

1-हरिवंशराय बच्चन के व्यक्तित्व और कृतित्व पर प्रकाश डालते हुए सचित्र एक आकर्षक परियोजना तैयार कीजिए।

2-स्त्री-अस्मिता की संघर्षपूर्ण आवाज के रूप में पढ़े गए पाठ भक्तिन के आधार पर नारी सशक्तिकरण को आकर्षक परियोजना द्वारा अभिव्यक्त कीजिए।

3-पत्रकारिता के विविध आयाम-परियोजनाकार्य

निर्देश-

परियोजना का -

प्रथमपृष्ठ-विद्यार्थी का नाम, कक्षा अनुक्रमांक, विद्यालय का नाम

द्वितीयापृष्ठ-आभारज्ञापन

तृतीयापृष्ठ-प्रमाणपत्र

चतुर्थपृष्ठ-अनुक्रमाणिका

पंचमपृष्ठ-प्रस्तावना

षष्ठम् पृष्ठ-सम्पूर्णचित्राकर्षक परियोजना

अन्तिमपृष्ठ-संदर्भग्रन्थ

निर्देश-सम्पूर्ण कार्य आन्तरिक मूल्यांकन के अन्तर्गत जाँचा जायेगा।

Mathematics:

MATHEMATICS HOLIDAY HOMEWORK (SUMMER VACATIONS) 2025-26

CLASS - 12

(A) WORKSHEETS, (TO BE SOLVED IN THE separate thin NOTEBOOK)

** TO BE SUBMITTED AFTER THE SUMMER VACATIONS.

CHAPTER -2

1. Find the interval in which the inverse of cosine function is defined.
2. Find the domain of the function $\cos^{-1}(2x - 1)$.
3. Find the domain of the function defined by $f(x) = \sin^{-1}\sqrt{x-1}$.
4. Write the principal value of $\sec^{-1}\frac{2}{\sqrt{3}}$.
5. If $\tan^{-1}\frac{3}{4} = A$ then find $\cos A$.
6. Find the value of $\tan^{-1} \left| 2\sin \left(2\cos^{-1}\frac{\sqrt{3}}{2} \right) \right|$.
7. Simplify the value of $\sin^{-1}\frac{1}{2} + \tan^{-1}\frac{1}{\sqrt{3}}$.
8. Find the value of $\sin \left| \frac{\pi}{3} + \sin^{-1}\frac{1}{2} \right|$.
9. Find the simplified value of $\tan^{-1}\left(\frac{1}{\sqrt{3}}\right) + \cot^{-1}\left(\frac{1}{\sqrt{3}}\right) + \tan^{-1}\left(\sin\left(\frac{\pi}{2}\right)\right)$.
10. If $\tan^{-1}a + \tan^{-1}b + \tan^{-1}c = \pi$, prove that $a+b+c = abc$.
11. Evaluate $\tan \left(2\tan^{-1}\left(\frac{1}{5}\right) - \frac{\pi}{4} \right)$.

12. If $4 \cos^{-1} x + \sin^{-1} x = \pi$ then find the value of x .
13. Solve $\sin\left(\frac{1}{4} \sin^{-1} \frac{\sqrt{63}}{8}\right)$
14. Simplify $\tan^{-1} \frac{1}{11} + \tan^{-1} \frac{2}{11}$
15. If $\tan^{-1} 3 + \tan^{-1} x = \tan^{-1} 8$ then find x .
16. If $\tan^{-1} \frac{x+1}{x-1} + \tan^{-1} \frac{x-1}{x} = \tan^{-1}(-7)$ then find the value of x .
17. Simplify $\sin(2(\tan^{-1} 0.75))$.
18. Write the simplified value of $\tan\left(\cos^{-1} \frac{3}{5} + \tan^{-1} \frac{1}{4}\right)$.
19. Evaluate $\cot\left(\frac{\pi}{4} - 2 \cot^{-1} 3\right)$.
20. If $\tan^{-1}(\cot \theta) = 2\theta$ then find θ .

Q21. Write the principal value of $\cos^{-1}\left(\cos \frac{2\pi}{3}\right) + \sin^{-1}\left(\sin \frac{2\pi}{3}\right)$?

Q22. Evaluate : $\tan^{-1}[2 \cos(2 \sin^{-1} \frac{1}{2})]$

Q23. Evaluate : $\tan^{-1}\left[\cos^{-1}\left(\sqrt{5}/3\right)\right]$

Q24. Prove that $\tan\left[\frac{1}{2} \sin^{-1}\left(\frac{2x}{1+x^2}\right) + \frac{1}{2} \cos^{-1}\left(\frac{1-y^2}{1+y^2}\right)\right] = \frac{x+y}{1-xy}$

Q25. Prove that : $\tan\left[\frac{\pi}{4} + \frac{1}{2} \cos^{-1}\left(\frac{a}{b}\right)\right] + \tan\left[\frac{\pi}{4} - \frac{1}{2} \cos^{-1}\left(\frac{a}{b}\right)\right] = \frac{2b}{a}$

Q26. Prove that $\cos[\tan^{-1}\{\sin(\cot^{-1} x)\}] = \frac{\sqrt{1+x^2}}{\sqrt{2+x^2}}$

Q27. Show that $\tan\left(\frac{1}{2} \sin^{-1} \frac{3}{4}\right) = \frac{4-\sqrt{7}}{3}$

Q28. Solve the equation $\sin^{-1} 6x + \sin^{-1} 6\sqrt{3}x = \frac{\pi}{2}$

Q29. Prove that $\cos\left(\sin^{-1} \frac{3}{5} + \cot^{-1} \frac{3}{2}\right) = \frac{6}{5\sqrt{13}}$

Q30. Solve the equation $\sin^{-1} \sqrt{x^2 + x + 1} + \tan^{-1} \sqrt{x^2 + x} = \frac{\pi}{2}$

CHAPTER 5

1. Show that the fun $f(x) = 2x - |x|$ is continuous at $x=0$.
2. If $f(x) = \frac{\sqrt{2} \cos x - 1}{\cot x - 1}$, $x \neq \frac{\pi}{4}$, find the value of $f\left(\frac{\pi}{4}\right)$ so that fun $f(x)$ becomes continuous at $x=\frac{\pi}{4}$
3. Show that $f(x) = |x|$ is not differentiable at $x=0$.
4. If $f(x) = \begin{cases} x^2 + 3x + a, & \text{for } x \leq 1 \\ bx + 2, & \text{for } x > 1 \end{cases}$ is everywhere differentiable, find the values of a and b .
5. If $f(x) = |\cos x|$, find $f'\left(\frac{\pi}{4}\right)$ and $f'\left(\frac{3\pi}{4}\right)$
6. Differentiate with respect to x (i) $\log_x 7(\log x)$ (ii) $\log_7 x(\log 7)$
7. If $\sqrt{1-x^6} + \sqrt{1-y^6} = a(x^3 - y^3)$, Prove that $\frac{dy}{dx} = \frac{x^2 \sqrt{1-y^6}}{y^2 \sqrt{1-x^6}}$
8. If $x^m y^n = (x+y)^{m+n}$, prove that $\frac{dy}{dx} = \frac{y}{x}$
9. Differentiate with respect to x $x = \frac{1+\log t}{t^2}$, $y = \frac{3+2 \log t}{t}$
10. Differentiate $x^{\sin^{-1} x}$ with respect to $\sin^{-1} x$
11. If $y^3 - y = 2x$, prove that $\frac{d^2 y}{dx^2} = \frac{24y}{(3y^2-1)^3}$

12. If $x = a \cos \theta + b \sin \theta$ and $y = a \sin \theta - b \cos \theta$, prove that $y^2 \frac{d^2 y}{dx^2} - x \frac{dy}{dx} + y = 0$
13. If $x = a \sin t - b \cos t$, $y = a \cos t + b \sin t$, prove that $\frac{d^2 y}{dx^2} = -\frac{x^2 + y^2}{y^3}$
14. If $y = \frac{\log x}{x}$, show that $\frac{d^2 y}{dx^2} = \frac{2 \log x - 3}{x^3}$
15. If $y = 2 \sin x + 3 \cos x$, show that $\frac{d^2 y}{dx^2} + y = 0$.

CHAPTER -6 APPLICATION OF DERIVATIVES

- Q1 A point source of light along a straight road is at a height of h metres. A boy of height b metres is walking along the road. How fast is his shadow increasing if he is walking away from the light at the rate of c metre /min ?
- Q2 Find the intervals in which the function f given by $f(x) = \sin x + \cos x$, $x \in [0, 2\pi]$ is strictly increasing or decreasing.
- Q3 Find the least value of $f(x) = px + q/x$, $p, q, x > 0$.
- Q4 Find the intervals in which the function $f(x) = \cos\left(2x + \frac{\pi}{4}\right)$ is increasing or decreasing, $x \in [0, 2\pi]$.
- Q5 A man is moving away from a tower 85m high at a rate of 4m/sec. At what rate is his angle of elevation changing when he is at a distance 60m from the foot of the tower.
- Q6 Show that the function $f(x) = a^x$, $a > 0$, is increasing for all x .
- Q7 Prove that the triangle of maximum area that must be inscribed in a given circle must be equilateral.
- Q8 Given that the sum of the perimeter of a square and a circle is constant. Show that the sum of their areas is least when the side of the square is equal to the diameter of the circle.
- Q9 A given quantity of metal is to be recast into half cylinder with rectangular base and semicircular ends. Show that in order that total surface area is minimum, prove that the ratio of length of the cylinder to its diameter is $\pi : \pi + 2$.
- Q10 If the surface area of an open cylindrical vessel is 100m^2 , then find its maximum capacity.
- Q11 If the sum of lengths of hypotenuse and side of a right angled triangle is given, show that the area of the triangle is maximum when the angle between them is $\pi/3$.
- Q12 A window has the shape of a rectangle surmounted by an equilateral triangle. If the perimeter of window is 12 m, find the length and breadth of the rectangle so that the maximum light can enter the window
- Q13 A water tank has the shape of an inverted right circular cone with its axis vertical and vertex lowermost. Its semi-vertical angle is $\tan^{-1} 0.5$. Water is being poured into it at a constant rate of 5 cubic metre per hour. Find the rate at which water is rising in the cone at the instant when the depth of water in the tank is 4m.
- Q14 The radius of cylinder is increasing at a rate of 2m/sec and height is decreasing at a rate of 3m/sec. At the instant when the radius is 3m and the height is 5m, find the rate at which the volume of cylinder is changing.
- Q15 Find the intervals of increase and decrease of the function $f(x) = \frac{\log x}{x}$

(B):- THE STUDENTS HAVE TO PREPARE MATHS ACTIVITY FILE FOR THE INTERNAL ASSESSMENTS IN MATHEMATICS, AS PER THE GUIDELINES ISSUED BY CBSE.

GUIDELINES AND INSTRUCTIONS FOR PREPARING THE ACTIVITY FILE:

- The activities should be done in a loose ruled project sheets and fixed in a stick file.
- It should contain the following in the order
 - INDEX

- ACKNOWLEDGEMENT
- The figures should be drawn with pencil.
- The headings should be written in black in and the content in blue ink.
- Use the graph sheets wherever required.
- Color pencil and pen can be used.
- Mention NAME OF THE SCHOOL, your NAME, CLASS AND SECTION, SUBJECT and SESSION in the activity file.
- Prepare a neat and clean creative activity file.

NOTE: THE PDF OF THE ACTIVITIES TO BE COMPLETED WIL BE SHARED IN THE CLASS WHATASPP GROUPS BY THE SUBJECT TEACHER.

THE HOLIDAY HOMEWORK HAS TO BE SUBMITTED AFTER THE SUMMER VACATIONS.

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THE HOLIDAY HOMEWORK HAS TO BE SUBMITTED AFTER THE SUMMER VACATIONS.

Applied Mathematics : THE HOLIDAY HW HAS TWO PARTS PART-1 AND PART-2
(PART-1) THE STUDENTS HAVE TO PREPARE A PROJECT FOR THE INTERNAL ASSESSMENTS IN APPLIED MATHEMATICS, AS PER THE GUIDELINES ISSUED BY CBSE.

GUIDELINES AND INSTRUCTIONS FOR PREPARING THE PROJECT:

TOPIC FOR THE PROJECT:

TIME BASED DATA" AND ITS APPLICATION IN REAL LIFE.


KEY-POINTS ABOUT THE TOPIC. (USE IN POINT-B, UNDER THE HEADING INSTRUCTIONS)***

- DEFINITION OF TIME BASED DATA
- OBJECTIVES OF STUDYING TIME BASED DATA
- RESEARCH QUESTIONS
- AREAS IN WHICH WE CAN USE TIME BASED DATA IN REAL LIFE.
- APPLICATION OF TIME BASED DATA IN VARIOUS AREAS.
- KEY CONCEPTS AND TOPICS IN TIME-BASED DATA:
- UNDERSTANDING TIME SERIES.
- COMPONENTS OF TIME SERIES(CYCLIC, TREND, SEASONAL, IRREGULAR)
- METHODS FOR ANALYZING TIME SERIES:
- MOVING AVERAGE METHOD: USED TO SMOOTH OUT FLUCTUATIONS AND REVEAL THE UNDERLYING TREND.
- METHOD OF LEAST SQUARES: USED TO ESTIMATE THE TREND COMPONENT AND FIT A STRAIGHT LINE TO THE DATA.
- USING TIME SERIES ANALYSIS TO PREDICT FUTURE VALUES OF THE VARIABLE BASED ON PAST PATTERNS.
- ANALYZING TRENDS IN BUSINESS SALES, STOCK PRICES, OR ECONOMIC INDICATORS.
- PREDICTING FUTURE SALES OR DEMAND.
- UNDERSTANDING SEASONAL PATTERNS IN DIFFERENT INDUSTRIES.
- EVALUATING THE EFFECTIVENESS OF MARKETING CAMPAIGNS OR OTHER BUSINESS STRATEGIES.

INSTRUCTIONS:

WHAT SHOULD BE INCLUDED IN THE PROJECT.

(A). COVER PAGE IN THE FORMAT GIVEN BELOW.

| <u>WELCOME TO MY PROJECT</u> | |
|--|--|
| NAME: CLASS AND SECTION..... NAME OF SCHOOL..... SCHOOL ADDRESS..... NAME OF SUBJECT TEACHER..... SESSION..... SUBJECT: MATHEMATICS FINISH THE FOLLOWING SENTENCES: - <u>GOAL SHEET:</u> | <div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;">  PHOTO </div> </div> |
| <ul style="list-style-type: none"> MY STRENGTH IN MATH INCLUDE: _____ MY WEAKNESSES IN MATH INCLUDE: _____ THE AREAS IN WHICH I HAVE IMPROVED IN MATH ARE: _____ | |

(B). NOTE ON WHAT YOU HAVE LEARNT.

USE KEY POINTS:

C). PROJECT REFLECTION

1). DATE OF START.....

2). DATE OF COMPLETION.....

3). AREAS OF IMPROVEMENT IN PROJECT.....

(D). SELF ASSESSMENT QUESTIONS IN THE PROJECT RELEVANT TO THE TOPIC (MIN. 5 QUESTIONS)

(E). TEACHERS COMMENTS (TO BE DONE BY THE TEACHER).

NAME OF STUDENT.....

TEACHERS SIGNATURE.....

*** NOTE:**

- MAKE A CREATIVE PROJECT.
- USE PROJECT SHEETS. (MINIMUM 10 SHEETS)
- USE GRAPH SHEETS IF REQUIRED
- COLOR PEN AND PENCIL CAN BE USED
- STICK FILE IS TO BE USED FOR THE PROJECT

➤ The PROJECT should be done in a loose ruled project sheets and fixed in a stick file.

➤ It should contain the following in the order

- INDEX
- ACKNOWLEDGEMENT
- BIBLIOGRAPHY

(PART-2) THE STUDENTS HAVE TO PREPARE A SPREADSHEET (EXCEL FILE) FOR THE INTERNAL ASSESSMENTS IN APPLIED MATHEMATICS, AS PER THE GUIDELINES ISSUED BY CBSE.

CASE STUDY QUESTION:-

Two farmers Ram and Shyam Singh cultivates only three varieties of rice namely Basmati, Permal and Naura. The sale (in Rupees) of these varieties of rice by both the farmers in the month of September and October are given by the following matrices A and B.

n) Transformers

o) Electromagnetic Waves and its Property

p) Huygen's Principle and its Applications

q) Microscope and Telescope

r) Semi Conductor and its Types

s) Full wave and Half wave Rectifier

t) P-N Junction Diode and its Applications

Instructions :

- (i) The project report should be handwritten in A-4 size Project sheets.
- (ii) The project report should be of 25-30 pages.
- (iii) The project report should be presented in the following order:
 - a) Cover page showing name of school, title of the project, name of subject, academic session, student information and name of the guide teacher along with his/her designation.
 - b) Certificate
 - c) Acknowledgement
 - d) Index
 - e) Content with relevant headings
 - f) Summary and conclusion based on findings
 - g) Bibliography/References
- (iv) Credit will be awarded to the original drawings and illustrations and creative use of materials.
- (v) All photographs and sketches should be labelled and acknowledged.
- (vi) Check the relevant content and References from different books and web sites.

2. Following Activities to be written in the activity file from lab manual :

- i) To assemble the components of a given electrical circuit.
- ii) To assemble a household circuit comprising three bulbs, three switches, a fuse and a power source.
- iii) To draw the diagram of a given open circuit comprising at least a battery, resistor/ rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.
- iv) To identify a diode, a L.E.D, a transistor, an IC, a resistor and a capacitor from mixed collection of such items.
- v) To observe diffraction of light due to thin slit between sharp edges of two razor blades.
- vi) To study the nature and size of the image formed by a convex lens, on a screen by using a candle and a screen.

Instructions:

- (i) Separate Practical File to be made for the activity.
- (ii) Following sequence to be followed – (a) Aim (b) Apparatus (c) Formula used (d) Result (e) Precaution (f) Sources of error
- (iii) Circuit diagram to be made with pencil only.

Chemistry :

Prepare an Investigatory project report on any ONE of the following topics :

- Study of the presence of oxalate ions in guava fruit at different stages of ripening.
- Study the quantity of casein present in different samples of milk.
- Preparation of soybean milk and its comparison with natural milk with respect to curd formation, the effect of temperature, etc.
- Study of the effect of Potassium Bisulphate as a food preservative under various conditions (temperature, concentration, time, etc.)
- Study of digestion of starch by salivary amylase and effect of pH and temperature on it.

- Comparative study of the rate of fermentation of the following materials: wheat flour, gram flour, potato juice, carrot juice, etc.
- Extraction of essential oils present in Saunf (aniseed); Ajwain (carum), Illaichi (cardamom).
- Study of common food adulterants in fat, oil, butter, sugar, turmeric power, chilli powder and pepper.
- **Any other topic related to the syllabus.**

Instructions:

- The project report should be handwritten in A-4 size (Interleaf) Project sheets.
- The project report should be of 25-30 pages.
- The project report should be presented in the following order:
 - Cover page showing name of school, title of the project, name of subject, academic session, student information and name of the guide teacher along with his/her designation.
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- Check the relevant content and References from different books and web sites.

Biology:

Prepare an investigatory project report on any one topic out of the following-

Antibiotics and their effects on humans/ Covid-19 and its effects/Alcohol and Drug abuse amongst adolescents and its control/Smoking and its ill effects/DNA Fingerprinting/ Human Genome Project/Amniocentesis and Female foeticide/ Conservation of wetlands (Ramsar sites)/Forest and wildlife conservation/Sacred groves/Threatened species and their conservation/ Genetically modified Organisms (Study of GM Plants and Transgenic Animals)/*Bacillus thuringiensis*/ Infertility in humans / IVF Technology /Test tube baby programme/Various Contraceptive devices/Study of Human Population and its control/Menstrual hygiene/ Sexually Transmitted Diseases/ Ectopic pregnancy/ Polycystic Ovaries/Pelvic Inflammatory diseases/ Maternal and Child Health Care(Prenatal and post natal care of mother and child)/Breast Cancer/Thalassemia/Haemophilia/Colour blindness/Sickle-cell anaemia/Gene Therapy/Down's Syndrome/ Plastic waste and its remedy/ AIDS/Breast Cancer/Uterine cancer/Brain Tumour/Child immunisation Programme/Vaccination Programme against COVID-19 in India/Ascariasis in children/ Amoebiasis/ Elephantiasis/ Ringworm/ Typhoid/ Pneumonia/ Malaria/ Allergies/Rheumatoid Arthritis-an auto- immune disease/Human Evolution/Maintenance of Aquarium/Assisted Reproductive Technologies/Organic Farming/Mendelian and Chromosomal Disorders/Human Health and Hygiene/Study of Antibiotics on the micro-organisms/Pollination in flowers/Microbes in Human welfare/Invasive weeds in India/Application of Biotechnology in Agriculture/Ecosystem and its components.

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- g) Bibliography/References
- iv) Credit will be awarded to the original drawings and illustrations and creative use of materials.
- v) All photographs and sketches should be labelled and acknowledged.
- vi) Check the relevant content and References from different books and web sites.

History :

Objective: To develop higher cognitive skills and foster a deeper understanding of historical topics through project-based learning.

A FEW SUGGESTIVE TOPICS FOR CLASS XII PROJECTS

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. 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 edicts
18. Comparative study of Mughal and Vijayanagar architecture

Project Work Benefits:

- Develop skills to gather data from various sources and arrive at logical deductions.
- Comprehend, analyze, interpret, and evaluate historical evidence.
- Enhance managerial skills such as coordination, self-direction, and time management.
- Foster understanding of diverse cultures, races, religions, and lifestyles.
- Promote constructivism, inquiry, and research.
- Communicate data effectively using various techniques.
- Encourage interaction, exploration, and understanding of contemporary issues in historical context.
- Develop a global perspective, international outlook, and informed decision-making abilities.
- Cultivate lasting interest in the discipline of history.

Project Guidelines:

- Projects can be done individually or in groups.
- Topics should be assigned after class discussion to avoid repetition.
- Teacher acts as a facilitator, guiding and providing necessary resources.
- Projects should enhance cognitive, affective, and psychomotor domains.

- Assessment includes self-assessment, peer assessment, and teacher assessment.
- Projects can culminate in various forms such as PowerPoint presentations, exhibitions, skits, albums, files, songs, dances, culture shows, storytelling, debates, panel discussions, or paper presentations.
- Students are encouraged to use primary sources like city archives, newspaper cuttings, photographs, film footage, recorded speeches, and secondary sources with proper authentication.
- Project report should be Handwritten only. (Eco-friendly materials can be used by students)

Encourage creativity, critical thinking, and thorough research in completing the projects. Wishing you an enriching and productive holiday assignment!

Note: Kindly refer to the guidelines on project work for classes XI and XII given below: - One Project to be done throughout the session, as per the existing scheme.

1. Steps involved in the conduct of the project: Students may work upon the following lines as suggested:

1. Choose a Title/Topic
2. Need of the Study, Objective of the Study
3. Hypothesis
4. Content -Timeline, Maps, Mind maps, Pictures, etc. (Organization of Material/Data Present Material/Data)
5. Analysing the Material/Data for Conclusion
6. Draw the Relevant Conclusion
7. Bibliography

2. Expected Checklist for the Project Work:

1. Introduction of topic/ title
2. Identifying the causes, events, consequences and/or remedies
3. Various stakeholders and effect on each of them
4. Advantages and disadvantages of situations or issues identified
5. Short-term and long-term implications of strategies suggested during research
6. Validity, reliability, appropriateness, and relevance of data used for research work and for presentation in the project file
7. Presentation and writing that is succinct and coherent in project file
8. Citation of the materials referred to, in the file in footnotes, resources section, bibliography etc.

4. Assessment of Project Work:

1. Project Work has broadly the following phases: Synopsis/ Initiation, Data Collection, Data Analysis and Interpretation, Conclusion.
2. The aspects of the project work to be covered by students can be assessed during the academic year.

5. Viva-Voce

1. At the end, each learner will present the research work in the Project File to the External and Internal examiner.
2. The questions should be asked from the Research Work/ Project File of the learner.
3. The Internal Examiner should ensure that the study submitted by the learner is his/her own original work. In case of any doubt, authenticity should be checked and verified.

*****Students will submit a broad outline of the project in July**

They will move in a progressive manner as per CBSE guideline during the academic year

CBSE Link for further clarification on project work-

https://cbseacademic.nic.in/web_material/CurriculumMain25/SrSec/History_SrSec_2024-25.pdf

Political Science:

As per CBSE guidelines, students of Class XII have to submit a handwritten project on **any one** of the following topics on:

1. India and its relation with the neighboring countries.
2. United Nations Organizations.
3. Relevance of Non Aligned Movement in the contemporary Geo Political Situation.

4. European Union and ASEAN.
5. Comparison in the economic growth of India and China.

General Instructions:

1. The project should be hand written.
2. It should be well presented, researched, and pictorial.
3. Cover page, table of contents, acknowledgements, bibliography, headings and sub – headings, teacher’s observation and student’s observation are a must.
4. The project should be presented in a file or get your project spiral bound.
5. The project should **not exceed 25 pages**.

Geography :

1. Prepare Geography Practical file. This practical file should be as per the syllabus given by CBSE.
2. Map Items for locating and labeling on political outline map of India (India - People and Economy)

| Chapter No. and Name | Map Items |
|--|--|
| 1-Population Distribution Density Growth and Composition | State with highest population density & state with lowest population density (2011) |
| 3-Land Resources and Agriculture | Leading producing states of the following crops:(a)Rice(b)Wheat(c) Cotton(d)Jute(e)Sugarcane(f)Tea and(g)Coffee |
| 5-Mineral And Energy Resources | <p>Mines:</p> <p>Iron-ore mines: Mayurbhanj, Bailadila, Ratnagiri, Bellary</p> <ul style="list-style-type: none"> • Manganese mines: Balaghat, Shimoga • Copper mines: Hazaribagh, Singhbhum, Khetari • Bauxite mines: Katni, Bilaspur and Koraput • Coal mines: Jharia, Bokaro, Raniganj, Neyveli • Oil Refineries: Mathura, Jamnager, Barauni |
| 8-International Trade | <p>Mark and label the major sea ports and air ports on an outline map of India.</p> <p>Major Sea Ports:</p> <p>Kandla, Mumbai, Marmagao, Kochi, Mangalore, Tuticorin, Chennai, Vishakhapatnam, Paradwip, Haldia</p> <p>International Airports:</p> <p>Ahmedabad, Mumbai, Bengaluru, Chennai, Kolkata, Guwahati, Delhi, Amritsar, Thiruvananthapuram & Hyderabad.</p> |

Economics : As per CBSE guidelines for the session 2025-26 the students will prepare a project work on any **ONE** of the following topics :

Suggestive list of Projects :-

- | | |
|--|--|
| * Micro and Small Scale Industries | * Contemporary Employment Situation in India |
| * Goods & Services Tax Act and its impact on GDP | * Human Development Index |
| * Self Help Group | * Government Budget and its Components |
| * Exchange Rate Determination- Methods & Techniques | * Live Stock- Backbone of Rural India |
| * Sarva Shiksha Abhiyan – Cost Ratio Benefit | * Organic Farming- Back to the Nature |
| * Digital India- Step Towards the future | * Vertical Farming- An alternate way |
| * Make in India- The way Ahead | * Rise of Concrete Jungle- Trend Analysis |
| * Monetary Policy Committee and its functions | * Minimum Support Prices |
| * Waste Management in India – Need of the hour | * Food Supply Channel in India |
| * Role of RBI in Control of Credit | * Trends in Budgetary Condition of India |
| * Currency War | * Alternative Fuels Types and Importance |
| * Golden Quadrilateral- Cost Ratio Benefit | * Silk Route- Revival of the Past |
| * Relation between Stock Price Index and Economic Health of Nation | |
| * Minimum Wage Rate-Approach and Application | * Aatmnirbhar Bharat |
| * Rain Water Harvesting- A Solution to Water Crises | |
| * Bumper Production- Boon or Bane for the Farmer | |
| * Sri Lanka Economic Crisis | * Environmental Crisis |
| * New Education Policy 2020 | * e- Rupee (e-Rs) |
| * Sustainable development Goals | |
| * Any other newspaper articles and its evaluation on basis of Economic Principles | |

Guidelines for Presentation of the Project:

- Introduction of topic/ title.
- Identifying the causes, consequences and remedies.
- Various stakeholders and effects on each of them.
- Advantages and disadvantages of situations or issues identified.
- Short term and long term implications of economic strategies.
- Presentation and writing that is succinct and coherent in project file.

The Project should include the following details:

- a) The total length of the project report should be 3500-4000, words (excluding diagrams and graphs).
- b) The project work should be hand written and credit will be given to original drawing.
- c) It should be presented in a neatly bound simple project file. The project should be developed and presented in the following order :
 - i) Cover page showing project title, student information, school and year.
 - ii) List of contents with page number.
 - iii) Certificate page
 - iv) Acknowledgement
 - v) Summary and Conclusion
 - vi) Bibliography

Accountancy :

One specific project based on financial statement analysis of a company covering any two aspects from the following:

- 1. Comparative and Common size financial statements
- 2. Accounting Ratios
- 3. Segment Reports
- 4. Cash Flow Statements

BST : Students are supposed to select one unit out of four and are required to make only ONE project from the selected unit. (Consist of one project of 20 marks)

I. Project One: (One out of Twelve)

Elements of Business Environment

The students should pick **any one** element out of the following:

1. Changes witnessed over the last few years on mode of packaging and its economic impact.
 - a) The changes in transportation of fruits and vegetables such as cardboard crates being used in place of wooden crates, etc. Reasons for above changes.
 - b) Milk being supplied in glass bottles, later in plastic bags and now in tetra-pack and through vending machines.
 - c) Plastic furniture [doors and stools] gaining preference over wooden furniture.
 - d) The origin of cardboard and the various stages of changes and growth.
 - e) Brown paper bags packing to recycled paper bags to plastic bags and cloth bags.
 - f) Re use of packaging [bottles, jars and tins] to attract customers for their products.
 - g) The concept of pyramid packaging for milk.
 - h) Cost being borne by the consumer/manufacturer.
 - i) Packaging used as means of advertisements.

2. The reasons behind changes in the following:

Coca – Cola and Fanta in the seventies to Thums up and Campa Cola in the eighties to Pepsi and Coke in nineties.

The students need to enquire about

- a) Reasons of stopping the manufacturing of the above mentioned drinks in India THEN.
 - b) The introduction of Thums up and Campa cola range.
 - c) Re entry of Coke and introduction of Pepsi in the Indian market.
 - d) Factors responsible for the change.
 - e) Other linkages with the above.
 - f) Leading brands and the company having the highest market share.
 - g) Different local brands venturing in the Indian market.
 - h) The rating of the above brands in the market.
 - i) The survival and reasons of failure in competition with the international brands.
 - j) Other observations made by the students
3. Changing role of the women in the past 25 years relating to joint families, nuclear families, women as a bread earner of the family, changes in the requirement trend of mixers, washing machines, micro wave and standard of living.
 4. The changes in the pattern of import and export of different Products.
 5. The trend in the changing interest rates and their effect on savings.
 6. A study on child labour laws, its implementation and consequences.
 7. The state of 'anti plastic campaign,' the law, its effects and implementation.
 8. The laws of mining /setting up of industries, rules and regulations, licences required for running that business.
 9. Social factors affecting acceptance and rejection of an identified product. (Dish washer, Atta maker, etc)
 10. What has the effect of change in environment on the types of goods and services?
The students can take examples like:
 - a) Washing machines, micro waves, mixers and grinder.
 - b) Need for crèche, day care centre for young and old.
 - c) Ready to eat food, eating food outside, and tiffin centres.

11. Change in the man-machine ratio with technological advances resulting in change of cost structure.
12. Effect of changes in technological environment on the behaviour of employee.

II. Project Two:

Principles of Management

The students are required to visit **any one** of the following:

1. A departmental store.
2. An Industrial unit.
3. A fast food outlet.
4. Any other organisation approved by the teacher.

You are required to observe the application of the general Principles of management advocated by Fayol.

Fayol's principles

1. Division of work.
2. Unity of command.
3. Unity of direction.
4. Scalar chain
5. Espirit de corps
6. Fair remuneration to all.
7. Order.
8. Equity.
9. Discipline
10. Subordination of individual interest to general interest.
11. Initiative.
12. Centralisation and decentralisation.
13. Stability of tenure.
14. Authority and Responsibility

OR

You may enquire into the application of scientific management techniques by F.W. Taylor in the unit visited.

Scientific techniques of management.

1. Functional foremanship.
2. Standardisation and simplification of work.
3. Method study.
4. Motion Study.
5. Time Study.
6. Fatigue Study
7. Differential piece rate plan.

III. Project Three:

Stock Exchange

Objective: The students should learn the values of investing and utilising the stock market.

The basis of this project is to learn about the stock market while investing a specified amount of fake money in certain stocks. Students then study the results and buy and sell as they see fit.

This project will guide and provide you with the supplies necessary to successfully monitor stock market trends and will teach students how to calculate profit and loss on stock.

The students are expected to:

- Develop a brief report on History of Stock Exchanges in India. (your country)
- Prepare a list of at least 25 companies listed on a Stock Exchange.
- To make an imaginary portfolio totalling a sum of Rs. 50,000 equally in any of the 5 companies of their choice listed above over a period of twenty working days.

The students may be required to report the prices of the stocks on daily basis and present it diagrammatically on the graph paper.

During this period of recording students are supposed to distinctively record the daily and starting and closing prices of the week other days under the negotiable instrument act so that you acquire knowledge about closing and opening prices.

The students may conclude by identifying the causes in the fluctuations of prices.

The students are expected to find the value of their investments and accordingly rearrange their portfolio.

The project **work should cover** the following aspects;

- Graphical presentation of the share prices of different companies on different dates.
- Change in market value of shares due to change of seasons, festivals, natural and human disasters.
- Change in market value of shares due to change in political environment/ policies of various countries/crisis in developed countries or any other reasons
- Identify the top ten companies out of the 25 selected on the basis of their market value of shares. It does not matter if you have made profits or losses.

IV. Project Four: Marketing

- | | | | |
|-------------------------|----------------------|-------------------|------------------------|
| 1. Adhesives | 2. Air conditioners | 3. Baby diapers | 4. Bathing Soap |
| 5. Bathroom cleaner | 6. Bike | 7. Blanket | 8. Body Spray |
| 9. Bread | 10. Breakfast cereal | 11. Butter | 12. Camera |
| 13. Car | 14. Cheese spreads | 15. Chocolate | 16. Coffee |
| 17. Cosmetology product | 18. Crayons | 19. Crockery | 20. Cutlery |
| 21. Cycle | 22. DTH | 23. Eraser | 24. e-wash |
| 25. Fairness cream | 26. Fans | 27. Fruit candy | 28. Furniture |
| 29. Hair Dye | 30. Hair Oil | 31. Infant dress | 32. Inverter |
| 33. Jams | 34. Jeans | 35. Jewellery | 36. Kurti |
| 37. Ladies bag | 38. Ladies footwear | 39. Learning Toys | 40. Lipstick |
| 41. Microwave oven | 42. Mixers | 43. Mobile | 44. Moisturizer |
| 45. Music player | 46. Nail polish | 47. Newspaper | 48. Noodles |
| 49. Pen | 50. Pen drive | 51. Pencil | 52. Pickles |
| 53. Razor | 54. Ready Soups | 55. Refrigerator | 56. RO system |
| 57. Roasted snacks | 58. Salt | 59. Sarees | 60. Sauces/ Ketchup |
| 61. Shampoo | 62. Shaving cream | 63. Shoe polish | 64. Shoes |
| 65. Squashes | 66. Suitcase/ airbag | 67. Sunglasses | 68. Tea |
| 69. Tiffin Wallah | 70. Toothpaste | 71. Wallet | 72. Washing detergent |
| 73. Washing machine | 74. Washing powder | 75. Water bottle | 76. Water storage tank |
| 77. Wipes | | | |

Identify **one product/service from the above** which you may like to manufacture/provide [pre-assumption].

Now you are required to make a project on the identified product/service keeping in mind the following:

1. Why have you selected this product/service?
2. Find out '5' competitive brands that exist in the market.
3. What permission and licences would be required to make the product?
4. What are your competitors Unique Selling Proposition.[U.S.P.]?
5. Does your product have any range give details?
6. What is the name of your product?
7. Enlist its features.
8. Draw the 'Label' of your product.
9. Draw a logo for your product.
10. Draft a tag line.
11. What is the selling price of your competitor's product?
 - (i) Selling price to consumer
 - (ii) Selling price to retailer
 - (iii) Selling price to wholesaler

What is the profit margin in percentage to the
Manufacturer.

Wholesaler.

Retailer.

12. How will your product be packaged?
13. Which channel of distribution are you going to use? Give reasons for selection?
14. Decisions related to warehousing, state reasons.
15. What is going to be your selling price?
 - (i) To consumer
 - (ii) To retailer
 - (iii) To wholesaler
16. List 5 ways of promoting your product.
17. Any schemes for
 - (i) The wholesaler
 - (ii) The retailer
 - (iii) The consumer
18. What is going to be your 'U.S.P?
19. What means of transport you will use and why?
20. Draft a social message for your label.
21. What cost effective techniques will you follow for your product.
22. What cost effective techniques will you follow for your promotion plan.

At this stage you will realise the importance of the concept of marketing mix and the necessary decision regarding the four P's of marketing.

Product

Place

Price

Promotion

On the basis of the work done by the students the project report should include the following:

1. Type of product /service identified and the (consumer/industries) process involve there in.
2. Brand name and the product.
3. Range of the product.
4. Identification mark or logo.
5. Tagline.
6. Labeling and packaging.
7. Price of the product and basis of price fixation.
8. Selected channels of distribution and reasons thereof.

9. Decisions related to transportation and warehousing. State reasons.
10. Promotional techniques used and starting reasons for deciding the particular technique.
11. Grading and standardization.

*** Instructions for making of Project File**

Following essentials are required to be fulfilled for its preparation and submission.

1. The total length of the project will be of 25 to 30 pages.
2. The project should be handwritten.
3. The project should be presented in a neat folder.
4. The project report should be developed in the following sequence-

*** Cover page should include the title of the Project, student information, school and year.**

List of contents.

Acknowledgements and preface (acknowledging the institution, the places visited and the persons who have helped).

Introduction.

Topic with suitable heading.

Planning and activities done during the project, if any.

Observations and findings of the visit.

Conclusions (summarized suggestions or findings, future scope of study).

Photographs (if any).

Appendix

Signatures of the teachers.

Physical Education:

1. Write procedure, benefits and contradiction for three asanas for each lifestyle diseases. (with diagram/ picture)
2. Any one Indian Olympic Association (IOA) recognized sports/ games of your choice according to class XII syllabus. Also mention its rules, terminologies and skills and labelled diagram of field and equipment.

Note : Use hand file with proper covering.

Computer :

Make an interleaved practical file to write programs and their corresponding outputs.

1. Write a Python program to find the largest of three numbers entered by the user.
2. Write a program to accept a string from the user and display the number of vowels in it.
3. Create a program to store 5 student names in a list and sort them in ascending order.
4. Write a function that accepts two numbers and returns their sum, difference, and product.
5. Write a Python function to check whether a number is prime or not.
6. Write a Python function that takes a string and returns it in reverse.
7. Write a function that takes a list of integers and returns the sum of even numbers only.
8. Define a recursive function to calculate the factorial of a number.
9. Write a program to:
 - Create a text file "notes.txt"
 - Write a few lines into the file
 - Read and display its contents
10. Write a Python program to count the number of lines and words in a given text file.
11. Write a program to read a file and print only the lines that start with the letter 'T'.
12. Write a program to:

- Store a dictionary with roll number and marks in a binary file
 - Read and display the data
13. Create a binary file student.dat with fields: roll number, name, marks. Write functions to: Add a new record:
- Display all records
 - Search a record by roll number
14. Solve the question paper of UT-1

Psychology:

• Attempt all the in your home work notebook

- 1) What is meant by delay of gratification? Why it is considered important for adult development?
- 2) How does Freud explain the structure of personality?
- 3) Discuss the main observational method used in personality assessment. What problems do we face in using these methods?
- 4) What is meant by structured personality tests? Which are the two most widely used structured personality test?
- 5) Explain how projective techniques assess personality. Which projective tests of personality are widely used by psychologist?
- 6) A child wants Ice cream cone. How do you explain it by using his structural elements of personality i.e id, ego and super ego?
- 7) How is Karen Horney's dew point regarding women different from that of Freud's?
- 8) Mir had no re collection of the bicycle he received as a gift on his 10th birthday. But when Neeta reminder him about the same he was able to recall it. What do you think why Mir has no re collection of the bicycle?

Case study based questions

A. Read the case given below and answer the questions that follow.

Samar is a school going child. Due to lockdown he is at home. One day he happens to have an instance to eat ice cream cone. However, there is only one ice cream cone in refrigerator. He wants to grab the cone and eat it. He also realizes that if he grabs the cone without asking, he may be punished.

The best way for Samar to achieve gratification is to ask for permission to eat the cone. In this way, he knows that if his behaviour is morally correct and this approach towards obtaining the ice cream will not create guilt, fear or anxiety in him.

- The instinctual energy of Samar to eat ice cream cone is derived from:
 - a) Repression
 - b) Reaction formation
 - c) Pleasure principle
 - d) Rationalization
- The realisation experienced by Samar that if he grabs the cone without asking, him may be punished comes from:
 - a) Id
 - b) Ego
 - c) Super ego
 - d) Repression
- Which of the following determine that the behaviour of Samar is morally correct and guilt free?
 - a) Id
 - b) Ego
 - c) Superego

B. Read the case given below and answer the questions that follow.

There is a tribe in Jharkhand namely Birhor. The Birhor tribe lives a nomadic life, which requires constant moment in small bands from one forest to another in search of games and other forest products such as foods, mushrooms, honey etc. In the Birhor society, children from an early age are allowed a normal freedom to move into forest and learn hunting and gathering skills. Their child socialization practice are also aimed at making children to do things without the help from elders, take decisions for themselves, and accept risks and challenges such as those involved in hunting from an early age of life.

- The development of personality among children occurs through
 - a) Behavioural approach
 - b) Cultural approach
 - c) Humanistic approach
 - d) Psychodynamic approach
- Which of the following create allows the child in Birhor tribe to take decisions for them?
 - a) Independence
 - b) Autonomous
 - c) Achievement
 - d) Livelihood

- iii. The groups economic maintenance system please a vital role in which of the following?
a) Psychodynamic approach b) Humanistic approach c) Cultural approach d) Behaviour approach
- iv. Which statement in the above passage reflex the achievement oriented behaviour?
a) Children from and early age are allowed enormous freedom to move into forest and done hunting and gathering skills.
b) The Birhor tribe lives on nomadic life, which requires constant moment in small bands from one forest to another in search of games and other forest products.
c) Their child socialization practices are also aim that making children to do things without the help from elders.
d) They can take decision for themselves.

PRACTICAL WORK REMINDER

Students complete your boards practical work that has been discussed in class.

Painting:

- * Make 10 still life in water colour.
- * Size – Half Imperial Sheet.
- * Colour- Artist Water Colour (Camelin)
- * Brushes- Use Round Brushes

Music (Vocal) :

- Q.-1. Define the following Terms : Alankar, Alaap, Taan, Meend, Gamak, Gram, Moorchhana, Kan, Khatka & Murki.
- Q.-2. Write about the Structure and Tuning of Tanpura with the help of a well-labeled diagram.
- Q.-3. Write down the following Taals' with Ekgun, Dugun , Tigun & Chaugun Laykari :-
Dhamar Taal , Roopak Taal, Chautaal, Jhaptaal, Teental, Ektaal.
- Q.-4. Give the Life-Sketch of the following :
● Ustad Bade Ghulam Ali Khan.
● Ustad Faiyaz Khan.
- Q.-5. Write the Description and Elaboration of the following Ragas :
a) Raga Bhairav b) Raga Bageshri
- Q.-6. Create Alankaars' in three different TAALS'.

NOTE : # HHW TO BE DONE IN PROJECT FILE ONLY.

NO STICK FILE TO BE USED AT ALL.

Music (Instrumental Tabla) :

Project Work

1. Diagram of Tabla
2. Definition of Uthan with example
3. Classification of Laykari
4. Biographies – 1. Pt. Kishan Maharaj & Ustad Zakir Husain
5. Comparative Study of Sooltaal – Jhaptaal & Ektaal – Chartaal.
6. Taal – Teentaal, Jhaptaal , Ektaal, Rupaktaal, Keharwataal, Dadra, Chartaal, Sooltaal, Tivrataal, Aditaal (with introduction and Dugun, Tigun and Chaugun Laykari)
7. Write down the Peshkar, One Kaidas in teentaal, Kaida Rela in teentaal.

Note- All work to be done in Project File only.

HEAD SENIOR SCHOOL

25/5/25
PRINCIPAL