**HOLIDAY HOMEWORK**
**CLASS XII (2023-24)**

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**ENGLISH**

**PROJECT WORK**
A **Project Report** is a compilation of the work that is produced during the process of working on a project.
Students are required to prepare a Project Report, based on the guidelines given, and submit the file having minimum 8-10 pages to their respective English teachers, for evaluation.

*Select any 1 project- Project A OR Project B*

**PROJECT A**

1. Choose a book from the given options.
*The Guide- RK Narayan
*To Sir With Love- ER Braithwaite
*Animal Farm- George Orwell

2. Prepare a file on the chosen book covering the following pointers. The file should be thematically decorated. Book cover should be attractive and self descriptive.

a) First page – Acknowledgement
b) Second page – Index
c) Third page – Setting
d) Fourth page onwards- Character Sketches
e) Following pages-
   (i) Plot and Structure
   (ii) Theme
   (iii) Style
   (iv) Critical appreciation
   (v) Your own point of view

**PROJECT B**

1. Pick any one topic from the following ones.
• Why is materialism a rattrap?
• Brand mania and teenagers
• The 21st century and joint families
• Internships- a need for the teen
• Women entrepreneurs of the world
• Emancipation of women in the Indian society
• Child labour
• Overuse of digital devices
• Teenagers and unrealistic dreams

- Bullying

2. Conduct research on the chosen topic.
Interview people/ Survey/ online investigation/ Read/ Listen to podcasts/ watch movies
- Analyse your research and reach a consensus.

3. Write a report. (800-1000 words)

*The Project File must include the following:*
    a) Cover page, with the title of project, school details/details of the student. (This may be in the printed form, aesthetically presented)
    b) Statement of purpose/objectives/goals
    c) Certificate of completion under the guidance of the teacher
    d) Action plan for the completion of assigned tasks.
    e) Materials such as scripts, questionnaires for interview, written assignments, essays, survey-reports and other material evidence of learning progress and academic accomplishment.
    f) Report (800-1000 words)
    g) Student reflections
    h) Photographs that capture the positive learning experiences of the student(s).
    i) List of resources/bibliography
    j) Back cover page

## MATHEMATICS

*A project on Fractal Art Gallery: Exploring the Beauty of Mathematical Patterns.*

### Procedure

Research the concept of Fractal Art Gallery. Students explore different types of fractals such as the *Mandelbrot set, Julia sets, and Sierpinski triangle, and use mathematical concepts* such as complex numbers, recursion, and iteration to generate the fractal patterns. They could also experiment with different colour schemes, textures, and animation techniques to enhance the visual impact of the fractal art.

Research the history and properties of different types of Fractals. Gather inspiration from different sources such as books, articles, videos, and artworks.

Based on your research and inspiration, plan your artwork.

Using the materials and techniques you have chosen, create your artwork. Collect images where this concept is incorporated Reflect on your project and think about what you have learned about the Mandelbrot set, Julia sets, and Sierpinski triangle and how they relate to art and design. Write a reflection that describes your creative process and what you have gained from it.

### Mathematics Practical File

Students will prepare Mathematics practical file containing 10 activities. Activities will be as per CBSE guidelines, given in the NCERT Laboratory Manual for Mathematics. Sample of the practical file will be uploaded on the google classroom for reference.

### Guidelines for Mathematics Practical File

1. Cover the file with black chart paper.

2. Index should be complete. Write the objective/ aim of the activity in the index.

3. Practical file used should be interleaf.

4. Each experiment should contain

   a. Objective
   b. Material required.
   c. Method of construction
   d. Demonstration
   e. Observation

## PRACTICE QUESTIONS:

1. Find the values of $p$ and $q$, for which

$$f(x) = \begin{cases} \dfrac{1-\sin^3 x}{3\cos^2 x}, & \text{if } x < \pi/2 \\ p, & \text{if } x = \pi/2 \\ \dfrac{q(1-\sin x)}{(\pi-2x)^2}, & \text{if } x > \pi/2 \end{cases}$$

is continuous at $x = \pi/2$.

If the function $f(x)$ given by

$$f(x) = \begin{cases} 3ax + b, & \text{if } x > 1 \\ 11, & \text{if } x = 1 \\ 5ax - 2b, & \text{if } x < 1 \end{cases}$$

2. is continuous at $x = 1$, find the values of $a$ and $b$.

3. If $y = \tan^{-1}\left( \dfrac{\sqrt{1+x^2} + \sqrt{1-x^2}}{\sqrt{1+x^2} - \sqrt{1-x^2}} \right),\ x^2 \leq 1$

then find $\dfrac{dy}{dx}$.  *(Delhi 2015)*

4. If $xy + y^2 = \tan x + y$, find $\dfrac{ay}{dx}$.

5. If $x^y = e^{x-y}$, prove that $\dfrac{dy}{dx} = \dfrac{\log x}{(1+\log x)^2}$.

6. Show that the function f(x) = | x – 1| + | x + 1| ,  for all x belongs to  R, is not differentiable at the points  x = –1 and x = 1.

7. If $y = (\sin x - \cos x)^{\sin x - \cos x}$, $\dfrac{\pi}{4} < x < \dfrac{3\pi}{4}$, then find $\dfrac{dy}{dx}$.

**8.** If $y = e^{m\sin^{-1}x}, -1 \leq x \leq 1,$ then show that

$$(1-x^2)\frac{d^2y}{dx^2} - \frac{xdy}{dx} - m^2y = 0.$$

**9.** If $y = x + \tan x$, then prove that

$$\cos^2 x \cdot \frac{d^2y}{dx^2} - 2y + 2x = 0.$$

**10.** Differentiate

$$\tan^{-1}\left(\frac{\sqrt{1+x^2}-1}{x}\right) \text{ w.r.t. } \sin^{-1}\frac{2x}{1+x^2}, \text{ if } x \in (-1, 1)$$

**11.** If $x = a\left(\cos t + \log \tan \frac{t}{2}\right), y = a\sin t,$ find

$$\frac{d^2y}{dt^2} \text{ and } \frac{d^2y}{dx^2}. \qquad (AI \ 2012)$$

**12.** If $y = (x + \sqrt{1+x^2})^n$, then show that

$$(1+x^2)\frac{d^2y}{dx^2} + x\frac{dy}{dx} = n^2 y.$$

**13.** Find the value of $\frac{dy}{dx}$ at $\theta = \frac{\pi}{4},$ if

$x = ae^\theta(\sin \theta - \cos\theta)$ and $y = ae^\theta(\sin\theta + \cos\theta)$.

**14.** Solve for $x$ : $2\tan^{-1}(\cos x) = \tan^{-1}(2\cosec x)$

**15.** Solve for $x$ :

$$\tan^{-1}\left(\frac{1-x}{1+x}\right) = \frac{1}{2}\tan^{-1}x, x > 0.$$

**16.** Solve for $x$ :

$$\tan^{-1}\left(\frac{x-1}{x-2}\right) + \tan^{-1}\left(\frac{x+1}{x+2}\right) = \frac{\pi}{4}.$$

Prove that :

17. $\cos\left[\tan^{-1}\left\{\sin\left(\cot^{-1} x\right)\right\}\right]=\sqrt{\dfrac{1+x^2}{2+x^2}}$

18. Prove that: $\sin^{-1}\dfrac{8}{17}+\sin^{-1}\dfrac{3}{5}=\tan^{-1}\dfrac{77}{36}$

Write into the simplest form:

19. $\cot^{-1}\left(\sqrt{1+x^2}-x\right).$

Solve for $x$ :

20. $\sin^{-1}(1-x)-2\sin^{-1}x=\dfrac{\pi}{2}$

Evaluate :

Q21) $\int \dfrac{cos2x+2sin^2x}{cos^2x}\ dx$

Q22) $\int \dfrac{x^4+1}{x^2+1}\ dx$

Q23) $\int \dfrac{1}{\sqrt{x+3}-\sqrt{x+2}}\ dx$

Q24) $\int \dfrac{x+cos6x}{3x^2+sin6x}\ dx$

Q25) $\int \dfrac{x^2+4x}{x^3+6x^2+5}\ dx$

Q26) $\int \dfrac{(1+logx)^2}{x}\ dx$

Q27) $\int \dfrac{cos\ (x+a)}{sin\ (x+b)}\ dx$

Q28) $\int \sqrt{1+sin\left(\dfrac{x}{4}\right)}\ dx$

Q29) $\int sin^4 2x\ dx$

Q30) $\int sin^3 2x\ cos^4 2x\ dx$

Q31) $\int sec^2x\sqrt{5+tanx}\ dx$

Q32) $\int sec^4x\ dx$

## CASE STUDY

Q33) A manufacturer produces three products Pencil, Eraser and Sharpener which he sells in two markets. Annual sales are indicated below:

| MARKET | Products (in number) | | |
|--------|--------|--------|----------|
| | Pencil | Eraser | Sharpener |
| A | 10000 | 2000 | 18000 |
| B | 6000 | 20000 | 8000 |

If unit sale prices of Pencil, Eraser and Sharpener are Rs.2.50, Rs.1.50 and Rs.1.00 respectively and unit costs of the above three commodities are Rs.2.00, Rs.1.00 and 50 paise respectively, then

a) Total revenue of market A
  i) Rs. 64000
  ii) Rs. 60400
  iii) Rs. 46000
  iv) Rs. 40600

b) Total revenue of market A
  i) Rs. 35000
  ii) Rs. 53000
  iii) Rs. 50300
  iv) Rs. 30500

c) Cost incurred in market A
  i) Rs. 13000
  ii) Rs. 30100
  iii) Rs. 10300
  iv) Rs. 31000

d) Profit in market A and B respectively are
  i) Rs. 15000, Rs. 17000
  ii) Rs. 17000, Rs. 15000
  iii) Rs. 51000, Rs. 71000
  iv) Rs. 10000, Rs. 20000

e) Gross profit in both market
  i) Rs. 23000
  ii) Rs. 20300
  iii) Rs. 32000
  iv) Rs. 30200

## ASSERTION REASON QUESTIONS

Q34) In the following questions, a statement of Assertion (A) is followed by a statement of Reason (R). Choose the correct answer out of the following choices.

a) Both (A) and (R) are true and (R) is the correct explanation of (A).
b) Both (A) and (R) are true and (A) is the correct explanation of (R).
c) (A) is true but (R) is false.
d) (A) is false but (R) is also false.

1. Assertion (A) : A matrix A = [4 7 -9] is a row matrix of order 1 X 3.

   Reason (R) : A matrix having only one row and any number of column is called row matrix.

2. Assertion (A) : If matrices A = $\begin{bmatrix} 7 & -2 \\ x & 6 \end{bmatrix}$ and B = $\begin{bmatrix} 7 & y \\ 5 & 6 \end{bmatrix}$ are equal, then x = 5 and y = -2.

   Reason (R) :  If two matrices A = $|a_{ij}|_{m \times n}$ and $|b_{ij}|_{m \times n}$ of same order m X n are equal, if $a_{ij} = b_{ij}$ for all i = 1,2,3,….,n and j= 1,2,3,…….m

## COMPETENCY-BASED QUESTIONS

Q 35) For the evaluation of the integral of the type $\int \frac{dx}{\sqrt{ax^2+bx+c}}$ we can simplify it using

$$ax^2 + bx + c = a\left[x^2 + \frac{b}{a}x + \frac{c}{a}\right] = a\left[\left(x + \frac{b}{2a}\right)^2 + \left(\frac{c}{a} - \frac{b^2}{4a^2}\right)\right]$$

Based on the above, answer the following

I.   $\int \frac{x}{x^4 - x^2 + 1}\, dx$

II.  $\int \frac{1}{\sqrt{5x^2 - 2x}}\, dx$

III. $\int \frac{x+3}{\sqrt{5 - 4x + x^2}}\, dx$

Q36) If B = $\begin{bmatrix} 1 & 2\alpha & 1 \\ 0 & 2 & 1 \\ \alpha & 3 & -1 \end{bmatrix}$ is the inverse of a matrix 3 X 3 matrix A, then find the sum of all values of $\alpha$ for which det A + 1 = 0.

Q37) If the matrix A = $\begin{bmatrix} 0 & a & -3 \\ 2 & 0 & -1 \\ b & 1 & 0 \end{bmatrix}$ is skew symmetric, find the values of 'a' and 'b'.

Q38) If A = $\begin{bmatrix} \cos \alpha & -\sin \alpha \\ \sin \alpha & \cos \alpha \end{bmatrix}$ , then for what value of $\alpha$, A is an identity matrix.

Q39) If A is a symmetric matrix and B is a skew symmetric matrix such that A + B = $\begin{bmatrix} 2 & 3 \\ 5 & -1 \end{bmatrix}$, then find |AB|.

## MULTIPLE CHOICE QUESTION

Q40) If A is matrix of order 2 X 3 and B is matrix 3 X 5, then the order of matrix (AB)' or (AB)$^T$ is

    a)  2 X 2

    b)  5 X 2

    c)  2 X 5

    d)  5 X 5

Q41) If matrix A = $\begin{bmatrix} 0 & 2b & -2 \\ 2 & 1 & 2 \\ 3b & 3 & -1 \end{bmatrix}$ is a symmetric matrix, then the value of a is

    a) $\dfrac{2}{3}$

    b) $-\dfrac{2}{3}$

    c) $\dfrac{3}{2}$

    d) $\dfrac{-3}{2}$

Q42) If the matrix $\begin{bmatrix} 2k+3 & 4 & 5 \\ -4 & 0 & -6 \\ -5 & 6 & -2k-3 \end{bmatrix}$ is skew symmetric, then the value of k is

    a) $\dfrac{3}{2}$

    b) $\dfrac{-3}{2}$

    c) $\dfrac{1}{2}$

    d)  None of these

Q43) Suppose P and Q are two different matrices of order 3 X n and n X p, then the order of the matrix P X Q is

    a)  3 X p

    b)  p X 3

    c)  n X n

    d)  3 X 3

Q44) If P and Q are two different matrices of order 3 X 4 and 4 X 3 respectively, then the order of matrix QP is

   a) 3 X 3

   b) 4 X 4

   c) 3 X 4

   d) 4 X 3

Q45) If P and Q are two different matrices such that P is of order 3 X 4 and PQ is of order 3 X 3, then the order of matrix Q is
   a) 3 X 3
   b) 4 X 4
   c) 3 X 4
   d) 4 X 3

Q46) If a matrix has 5 elements, write all possible orders it can have are
   a) 1 X 5 only
   b) 5 X 1 only
   c) 1 X 5 and 5 X 1 both
   d) None of these

Q47) If $\begin{bmatrix} x-y & z \\ 2x-y & w \end{bmatrix} = \begin{bmatrix} -1 & 4 \\ 0 & 5 \end{bmatrix}$, the value of x + y os

   a) 1
   b) 2
   c) 3
   d) 4

Q48) If A is a matrix of order 3 X 3 such that $A^2 = 4A - 3I$, then $A^{-1}$ is
   a) $\frac{1}{4}(4I - A)$
   b) $\frac{1}{2}(4I - A)$
   c) $\frac{1}{3}(4I - A)$
   d) $3(4I - A)$

## CHEMISTRY

**ROLL NO.1-5**

*Let us study chemistry from a book beyond textbooks. Grab your kindle or look for Silent Spring by Rachel Carson in your library.*

Read this marvel where chemistry explains the environmental harm caused by the indiscriminate use of pesticides and make a short presentation for the same.

**ROLL NO.6-10**

Make a short presentation on the harmful effects of polyhalogen compounds.

**Technological Tool-MS PowerPoint/sway presentation**

*Mind maps are an effective learning method that boost one's creativity, improve concept clarity and help increase productivity.*

**ROLL NO.11-15**

Using your creative hand and scientific abilities prepare a mind map on chemical properties of Haloalkanes.

**ROLL NO.16-20**

Using your creative hand and scientific abilities prepare a mind map on chemical properties of Haloarenes.

**Technological Tool-Canva/ Popplet/ MindMeister**

*Pictures narrate the best stories that last the longest in our memory. The presentation matters as much as the content on the table!*

**ROLL NO.21-25**

Using your knowledge of chemical properties of alcohols, prepare a fun infographic or a flyer.

**ROLL NO.26-30**

Using your knowledge of chemical properties of phenols, prepare a fun infographic or a flyer.

**Technological Tool- Canva/Piktochart/Adobe spark**

*"Once, I told a chemistry joke. There was no reaction, using your creativity as the catalyst.*

**ROLL NO.31-35**

Design Wakelet on all the name reactions from the chapter Haloalkanes and Haloarenes.

**ROLL NO.36-40**

Design Wakelet on all the name reactions from the chapter alcohols phenols and ethers.

Learn more about Wakelet at https://learn.wakelet.com

*There is a higher chance of you forgetting literature then you forget a movie that you have watched, using any of the applications listed below make a short video on any one of the below listed topics.*

**ROLL NO.41-45**

SN1 reaction mechanism

**ROLL NO.46-50**

SN2 reaction mechanism

**ROLL NO.51 onwards**

Difference between SN1 and SN2 reaction mechanisms

NOTE-Your face should be visible in the video, it should have a clear voice over and the duration of the video can be between 60 to 90 seconds.

Students to complete the given assignment in the assignment notebook.

https://docs.google.com/document/d/1IkAbCS6pJ0GCaGWqaZn5EyQJ6Ysbkbg7tMSbo18pi9o/edit?usp=share_link

**Students can take up an investigatory project and prepare a project file as per the guidelines uploaded on the Google Classroom.**

The project can be done in groups of 4 students.

*Kindly note that the HHW assignment is to be uploaded on the google classroom on the provided link.*

## PHYSICS

**Complete the attached assignments as a revision for the Special Term**
CLICK HERE FOR THE HOLIDAY HOMEWORK

**ART INTEGRATION ACTIVITY**

*A mind map is a diagram in which information is represented visually, usually with a central idea placed in the middle and associated ideas arranged around it.*

**CREATE A MIND MAP INCORPORATING ALL IMPORTANT LEARNING POINTS OF ANY ONE OF THE FOLLOWING CHAPTERS**

- **ELECTRIC CHARGES AND FIELD**
- **ELECTRIC POTENTIAL AND CAPACITANCE**
- **CURRENT ELECTRICITY**

**Such mind maps help in quick revision of the important concepts.**

**You can refer to following websites for help**
- **LucidCharts**
- **Mind Tools**

## BIOLOGY

A. Investigatory Project Work-The more original or new the project is, the better it would be. But it must be realistic in terms of the time available and at a level attained in the higher secondary biology.

- Keep the aim of your project simple.
- Investigate only one factor at a time and never allow yourself to be side-tracked.
- Reporting/Writing of Project
  A format, such as given below, can be followed.
 (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: Khan Academy, Embibe.com

**Kindly note: You can choose any two tasks out from B,C,D and E. Task A is mandatory for all.**

B. Play Sherlock Holmes (who is now a vlogger) and solve a genetic mystery(Include family members and friends to play different roles) using pedigree analysis

     Task 1: Paternity dispute

     Task 2: Ancestry revelation

     Task 3: Murder mystery

C. Freckles/dimples/Allergies. The traits that make us are unique and fascinating. Explore your own genetic inheritance with a game of bingo to establish the most common variations.

D. Watch any one movie and use Mindmeister to prepare a concept map of evolution of animals/man/planet

     a. Ice age

     b. Planet of the apes

     c. Interstellar

     d. Any movie of your choice based on evolution

E. Make a poster on - Drugs of abuse and the reward pathway using Canva

## COMPUTER SCIENCE AND IP

Students have to create a project on any useful IT application. The learner may identify a real-world problem by exploring the environment. e.g. Students can visit shops/business places, communities or other organizations in their localities and enquire about the functioning of the organization, and how data are generated, stored, and managed.

The learner can take data stored in csv or database file and analyze using Python libraries and generate appropriate charts to visualize. Students may use any of the open source to collect the data. For example kaggle.com etc.(for IP Students)

The aim of the class project is to create something that is tangible and useful using Python file handling/ Python-SQL connectivity. (for CS students)

If an organization is maintaining data offline, then the learner should create a database using MySQL and store the data in tables. Data can be imported in Pandas for analysis and visualization.

Learners can use Python libraries of their choice to develop software for their school or any other social good. They have to include python charts to represent the data analysis.

You must avoid plagiarism and violation of copyright issues while working on projects. Any resources (data, image etc.) used in the project must be suitably referenced. The layout of the project is as follows :

MAIN PROJECT FILE

1.     COVER PAGE / MAIN PAGE
       BAL BHARATI PUBLIC SCHOOL, PITAMPURA
       COMPUTER SCIENCE (083) / INFORMATICS PRACTICES (065) PROJECT (2023-2024)
       PICTURE/IMAGE RELATED TO THE PROJECT
       HEADING (TOPIC)

        NAME : _____          CLASS _____        BOARD ROLL NO. _____

2.     CERTIFICATE
       This is to certify that this Computer Science  / Informatics practice project is a bonafide record done by *full name* of class XII _ of BAL BHARATI PUBLIC SCHOOL, PITAMPURA.
       Furthermore it has been verified that the project has been done under my supervision.
       The references taken in making this project have been declared at the end of this project.

       Name of the teacher (Ms. Preeti Khanna for CS / Ms.Beena S Nair for IP)
       (083 Computer Science / 065-Informatics Practices)

3.      ACKNOWLEDGEMENT
       I wish to acknowledge the cooperation and guidance of my computer teacher _____who has been very helpful and kind during the course of my project. Her constant motivation was a source of inspiration which encouraged me to complete this project successfully. Immense hard work has been put into this project to keep its working and efficiency high within its limited scope.
       NAME  :
       CLASS  :
       ROLL NO  : *BOARD ROLLNO*
       SESSION : 2023-2024
4.     INTRODUCTION / IN A NUTSHELL (SUMMARY)
5.     HARDWARE REQUIREMENTS
6.     SOFTWARE REQUIREMENTS
7.     SOURCE CODE
8.     STRUCTURE OF ALL THE CSV files/MySQL files
9.     OUTPUT SCREENSHOTS / SOFTWARE INTERFACE
10.    SCOPE (MERITS)
11.    DEMERITS (LIMITATIONS)
12.    REFERENCES /BIBLIOGRAPHY

The project can be done in groups of 2  students ONLY.

## ECONOMICS

Q-1 The students will prepare project file in economics and follow the sequence as per CBSE project guidelines

1. Title Sheet
2. Self-Introduction

   · NAME:
   · CLASS:
   · SCHOOL NAME:
   · ROLL NO: *BOARD ROLLNO*
   · SESSION: 2022-2023
3. Certificate

This is to certify that this Economics project is a bona fide record done by *full name of the student* of class XII D/E/F/G/H,  Bharati Public School, Pitampura.

Furthermore, it has been verified that the project has been done under my supervision. The references taken in making this project have been declared at the end of this project.

Name of the teacher
(030 Economics)

4. Acknowledgement

   I wish to acknowledge the cooperation and guidance of my Economics teacher Ms. _____ who has been very helpful and kind during my project.

   Her constant motivation was a source of inspiration which encouraged me to complete this project successfully. Immense hard work has been put into this project to keep its working and efficiency high within its limited scope.

5. Index
6. Objectives of Project study: Write at least 5-6 objectives in point form. For example if your topic is Government budget, then your objectives may be:

   (a) To understand the meaning and objectives of the government budget.

   (b)To discuss the various sources of budget receipts and budget expenditure and so on.

7. Detailed content
   - Introduction of topic/title
   - Identifying the causes, consequences and/or remedies
   - 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 .
8. Questionnaire/ Case study
9. Presentation and analysis of data
10. Conclusion
11. Students' own views/perception/opinion and learning from the work
12. Bibliography

■ Students can also paste related newspaper cuttings, extracts from the news media, government policies, RBI bulletin, NITI Aayog reports, IMF/World Bank reports, Economic survey, Government budget etc. in their project work

■ Total number of pages may range from 25-35 pages.

- Please note that the contents of project work must be written in one's own handwriting only on one side of A4 size sheets (coloured or plain)
- The project should be presented in a neat folder.
- For suggestive list for project topics, students can refer to the link.

https://cbseacademic.nic.in/web_material/CurriculumMain23/SrSec/Economics_SrSec_2022-23.pdf

Q2 Students will do the following assignment on money and banking and submit it on google classroom.  please refer to the following assignment link:

https://docs.google.com/document/d/1UwPcV-IA_FpH8mV_40TrfHLNNeidsllCPg7W2wrMYQM/edit?usp=sharing

Q3. Interpret the picture and answer the following question .
i)



a)  Government provides free education to the under privileged section of the society. Under which category of  the expenditures would be counted and why?
b) also explain social objective as a goal of economic planning with reference to the picture given .
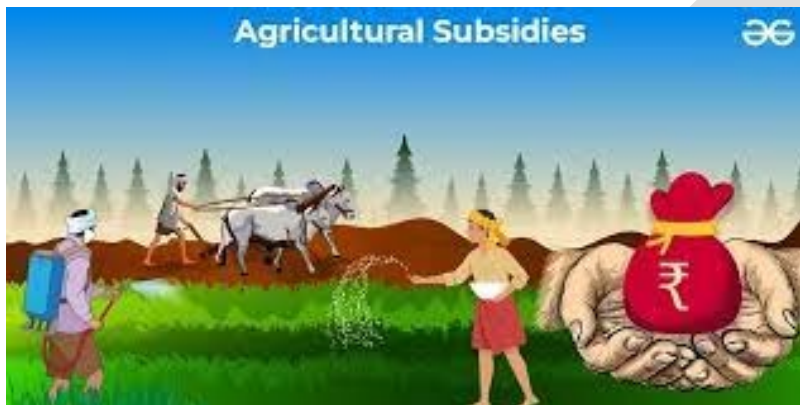


ii)
a) what was the condition of agriculture sector before independence and what were the reasons?

iii)

a) How can RBI use these tools of monetary policy to control recession in an economy?

iv)



a) There have been many benefits of agricultural subsidies to the farmers, but it had been argued by many economists that they should be phased out. do you agree with the statement. Give your opinions with reference to the picture given.

## BUSINESS STUDIES

Q1. Presentation and Submission of Project

Each student will prepare and submit his/her project .

Following essentials are required to be fulfilled for its preparation and submission.
- The total length of the project will be of 25 to 30 pages.
- The project should be handwritten only on one side of A4 size sheets (coloured or plain)
- The project should be presented in a neat folder.

Keeping the guidelines given by the CBSE the project should be developed in the following sequence-
- Title Sheet
- Self-Introduction
    - NAME:
    - CLASS:
    - SCHOOL NAME:
    - ROLL NO: *BOARD ROLLNO*

- SESSION: 2022-2023
- Certificate
  This is to certify that this Business Studies project is a bona fide record done by *full name of the student* of class XII D/E/F Bharati Public School, Pitampura.
  Furthermore, it has been verified that the project has been done under my supervision.
  The references taken in making this project have been declared at the end of this project.

  Name of the teacher (Ms. Aprajita Malhotra/ Ms. Amrita Bakshi)
  (054 Business Studies)

- Acknowledgement

  I wish to acknowledge the cooperation and guidance of my Business Studies teacher Ms. _____ who has been very helpful and kind during my project.

  Her constant motivation was a source of inspiration which encouraged me to complete this project successfully. Immense hard work has been put into this project to keep its working and efficiency high within its limited scope.

- Index
- Product chosen
- Detailed content
- Conclusion
- Bibliography

Q2. For assignment on Marketing Management refer to the following link

https://docs.google.com/document/d/13NFRKKMeg_YxgEPG6h_0ZbbVA0Y_TzFz/edit?usp=sharing&ouid=102767528533846223850&rtpof=true&sd=true

<u>**FEARLESS INNOVATORS– THE ENTREPRENEUR IN YOU**</u>

Have a business idea? So, entrepreneurial minds unleash your entrepreneurial skills and create a future-focused, innovative idea, product, or service that has the potential to become a profitable business venture.

<u>**GENERAL GUIDELINES**</u>

1. This is a group project. Maximum number of students allowed per team is four.

2. Ideas must be original. Plagiarism will lead to disqualification.

3. Initial investment required for the business idea should not exceed Rs. 5 lacs.

4. Students are allowed to use props to make their pitch impressive.

You are required to prepare a PPT showcasing your business idea under the following guidelines:

- Problem statement
- Business plan (innovative product/service)
- Novelty

- Target market
- Brand name and Tagline
- Market strategy ( online & offline)
- Revenue strategy
- Cost structure
- Value addition to society (CSR)

- Jingle/Advertisement for promotion

While making the presentation, your team should be able to answer specific questions regarding your innovative idea like:

👉 What is the problem you are trying to solve?

👉 What are the existing solutions?

👉 What are you proposing? Why is it innovative? How does it solve the problem better than existing solutions?

👉 Who is your target market or customer?

👉 What is your pricing strategy?

👉 What all cost-effective Marketing methods will you be using?

## ACCOUNTANCY

| Q1 | **Read the following information and answer the given question** Abha and Vibha are partners, who shared profits and losses in the ratio of 2:1 From the 1stJanuary 2021, the partners decided to change their profit sharing ratio to 3:2 and agreed upon the following: (i) Goodwill of the firm valued at ₹ 45,000. (ii) Creditors of ₹ 8,000 is not likely to be claimed hence should be written off. (iii) Land and Building is overvalued by 10%. (iv) Provision for doubtful debts to be reduced to ₹ 3,000 The partners neither want to record the goodwill nor to distribute the general reserve. | |
| --- | --- | --- |
| | Abha's  gain or sacrifice in the profit sharing ratio is: (a) Gain    1/3 (b) Sacrifice  1/3 (c) Gain    1/15 (d) Sacrifice  1/15 | |

| Q2 | Shyam, Gopal & Arjun are partners carrying on garment business. Shyam withdrew ₹ 10,000 in the beginning of each quarter. Gopal, withdrew garments amounting to ₹ 15,000 to distribute it to flood victims, and Arjun withdrew ₹ 20,000 from his capital account. The partnership deed provides for interest on drawings @ 10% p.a. The interest on drawing charged from Shyam, Gopal & Arjun at the end of the year will be |  |
|---|---|---|
|  | a) Shyam- ₹ 4,800; Gopal- ₹ 1,000; Arjun- ₹ 2,000. |  |
|  | b) Shyam- ₹ 4,800; Gopal- ₹ 1,000; Arjun- ₹ 2,000. |  |
|  | c) Shyam- ₹ 2,500; Gopal- ₹ 750; Arjun- Nil. |  |
|  | d) Shyam- ₹ 4,800; Gopal- Nil; Arjun- Nil. |  |
| Q3 | A and B are partners. B draws a fixed amount at the end of every quarter. Interest on drawings is charged @15% p.a. At the end of the year interest on B's drawings amounted to ₹9,000. Drawings of B were: |  |
|  | a) ₹24,000 per quarter. |  |
|  | b) ₹40,000 per quarter |  |
|  | c) ₹30,000 per quarter |  |
|  | d) ₹80,000 per quarter |  |
| Q4 | Read the following hypothetical situation, answer question no. 9 and 10. Richa and Anmol are partners sharing profits in the ratio of 3:2 with capitals of ₹2,50,000 and ₹1,50,000 respectively. Interest on capital is agreed @ 6% p.a. Anmol is to be allowed an annual salary of 12,500. During the year ended 31st March 2023, the profits of the year prior to calculation of interest on capital but after charging Anmol's salary amounted to ₹62,000. A provision of 5% of this profit is to be made in respect of manager's commission. |  |

Following is their Profit & Loss Appropriation Account

| Particulars | (₹) | Particulars | (₹) |
|---|---|---|---|
| To Interest on Capital Richa Anmol | --------- --------- | By Profit & loss account (After manager's commission) | ___(2)___ |
| To Anmol's Salary a/c | 12,500 |  |  |
| To Profit transferred to: Richa's Capital A/C  (1) | __(1)__ |  |  |
| Anmol's Capital A/c | ----------- |  |  |
|  | ----------- |  | ---------- |

The amount to bereflected in blank (1) will be: a) ₹37,200 b) ₹44,700 c) ₹22,800 d) ₹20,940

The amount to be reflected in blank (2) will be: a) ₹62,000. b) ₹74,500. c) ₹71,400. d) ₹70,775.

In the absence of an agreement, partners are entitled to:

i)      Profit share in capital ratio.
ii)     Commission for making additional sale.
iii)    Interest on Loan & Advances by them to the firm.
iv)     Salary for working extra hours.
v)      Interest on Capital.
Choose the correct option: a) Only i), iv) and v). b) Only ii) and iii). c) Only iii). d) Only i) and iii).

| | |
|---|---|
| **Q5** | Annu, Banu and Chanu are partners, Chanu has been given a guarantee of minimum profit of ₹8,000 by the firm. Firm suffered a loss of ₹5,000 during the year. Capital account ofBanu will be _____ by₹_____.<br><br>a) Credited, ₹6,500.<br><br>b) Debited, ₹6,500.<br><br>c) Credited, ₹1,500.<br><br>d) Debited, ₹1,500 |
| **Q6** | Interest on Partner's loan is credited to:<br><br>   a. Partner's Fixed capital account.<br>   b. Partner's Current account.<br>   c. Partner's Loan Account.<br>   d. Partner's Drawings Account |
| **Q7** | A, B and C are in partnership business. A used ₹2,00,000 belonging to the firm without the information to other partners and made a profit of ₹35,000 by using this amount. Which decision should be taken by the firm to rectify this situation?<br><br>   a. A need to return only ₹2,00,000 to the firm.<br>   b. A is required to return ₹35,000 to the firm.<br>   c. A is required to pay back ₹35,000 only equally to B and C.<br>   d. A need to return ₹2,35,000 to the firm. |
| **Q8** | Assertion: Batman, a partner in a firm with four partners has advanced a loan of ₹50,000 to the firm for last six months of the financial year without any agreement. He claims an interest on loan of ₹3,000 despite the firm being in loss for the year.<br><br>Reasoning: In the absence of any agreement / provision in the partnership deed, provisions of Indian Partnership Act, 1932 would apply. |

| | | |
|---|---|---|
| | a) Both A and R are correct, and R is the correct explanation of A.<br>b) Both A and R are correct, but R is not the correct explanation of A.<br>c) A is correct but R is incorrect.<br>d) A is incorrect but R is correct. | |
| **Q9** | A& B are partners sharing profits and losses in the ratio of 3:2. C is admitted for ¼ and for which ₹30,000 and ₹10,000 are credited as a premium for goodwill to A and B respectively. The new profitsharing ratio of A:B:C will be:<br><br>a) 3:2:1<br><br>b) 12:8:5<br><br>c) 9:6:5<br><br>d) 33:27:20 | |
| **Q10** | **Read the hypothetical text and answer**<br><br>P, Q and R are partners in a firm. Their capitals are ₹ 30,000, ₹ 20,000 and ₹ 10,000respectively. As per partnership deed,<br><br>i) R is to be allowed remuneration of ₹ 3,000 p.a<br><br>. ii) Interest on capital @ 5% p.a.<br><br>iii) Profits should be distributed in the ratio of 2:2:1.<br>Ignoring the above terms, net profit of ₹ 18,000 was distributed among the partners equally. | |
| | How much interest on capital is to be credited to the partner P?<br>a) ₹ 1,500   b) ₹ 1,000   c) ₹ 900    d) ₹ 800 | |
| | How much profit is to be credited to the Partner Q after all adjustments?<br>a) ₹ 2,400   b) ₹ 4,800   c) ₹ 1,000   d) ₹ 1,200 | |
| | What is the total profit to be credited to P, Q and R after all adjustments?<br>a) ₹ 12,000  b) ₹ 8,000    c) ₹ 9,000    d) ₹ 10,000 | |
| | What is the amount of the past adjustment entry?<br>a) ₹ 350    b) ₹ 450    c) ₹ 250    d) ₹ 550 | |
| **Q11** | A, B and C were partners in a firm sharing profits in the ratio of 3:2:1. They admitted D as anew partner for 1/8 share in the profits, which he acquired 1/16th from B and 1/16th from C. The New Profit Sharing Ratio of A, B, C and D is:<br><br>  (a) 24:13:5:6<br>  (b) 24:5:13:6<br>  (c) 3:6:8:2<br>  (d) 3:2:1:1 | |

| Q12 | A and B are partners sharing profit in the ratio of 3:2. They admit C as a partner by giving him 1/3rd share in future profits. The new ratio will be : | |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------|---|
| | (a) 12:8:5 | |
| | (b) 8:12:5 | |
| | (c) 5:5:12 | |
| | (d) None of these | |
| Q13 | **Read the hypothetical text and answer** | |
| | P, Q and R are partners in a firm. Their capitals are ₹ 30,000, ₹ 20,000 and ₹ 10,000respectively. As per partnership deed, | |
| | i) R is to be allowed remuneration of ₹ 3,000 p.a | |
| | ii) Interest on capital @ 5% p.a. | |
| | iii) Profits should be distributed in the ratio of 2:2:1. | |
| | Ignoring the above terms, net profit of ₹ 18,000 was distributed among the partners equally. | |
| | How much interest on capital is to be credited to the partner P? <br> a) ₹ 1,500    b) ₹ 1,000    c) ₹ 900    d) ₹ 800 | |
| | How much profit is to be credited to the Partner Q after all adjustments? <br> a) ₹ 2,400    b) ₹ 4,800    c) ₹ 1,000    d) ₹ 1,200 | |
| | What is the total profit to be credited to P, Q and R after all adjustments? <br> a) ₹ 12,000   b) ₹ 8,000    c) ₹ 9,000    d) ₹ 10,000 | |
| | What is the amount of the past adjustment entry? <br> a) ₹ 350    b) ₹ 450    c) ₹ 250    d) ₹ 550 | |
| Q14 | Divya purchased Jyoti's business with effect from 1st April, 2019. Profits shown by Jyoti'sbusiness for the last three financial years were: <br> Calculate the value of the firm's goodwill on the basis of three year's purchase of theaverage profit of the last three years | |

| 2016-17 | Rs. 1,00,000 (including an abnormal gain of Rs. 12,500) |
|---------|---------------------------------------------------------|
| 2017-18 | Rs. 1,25,000 (after charging an abnormal loss of Rs. 25,000) |
| 2018-19 | Rs. 1,12,500 (excluding Rs. 12,500 as insurance premium on the firm's property-now to be insured) |

| Q15 | Rajinder and Vijay were partners in a firm sharing profits in the ratio 3:2. On 31st March 2023 their balance sheet was as follows: |  |

| Liabilities | | Amount (₹) | Assets | |
|---|---|---|---|---|
| Capital A/cs: | | | Fixed Assets (Tangible) | |
| Rajinder | 3,00,000 | 4,50,000 | Goodwill | |
| Vijay | 1,50,000 | | Investments | |
| Current A/cs: | | | Stock | |
| Rajinder 50,000 Vijay 10,000 | | 60,000 | Debtors 1,00,000 Less:Provision for Doubtful Debts4,000 | |
| Creditors | | 75,000 | Bank | |
| General Reserve | | 60,000 | | |
| | | 6,45,000 | | |

With an aim to expand business it is decided to admit Ranvijay as a partner on 1st April 2023 on the following terms:

a. Provision for doubtful debts is to be increased to 6% of debtors.
b. An outstanding bill for repairs ₹ 50,000 to be accounted in the books
c. An unaccounted interest accrued of ₹ 7500 be provided for .
d. Investment were sold at book value.
e. Half of stock was taken by Rajinder at ₹42,000 and remaining stock was also to be revalued at the same rate.
f. New profit-sharing ratio of partners will be 5:3:2.
g. Ranvijay will bring ₹ 1,00,000 as capital and his share of goodwill which was valued at twice the average profit of the last three years ended 31st March 2023, 2022 and 2021 were ₹ 1,50,000, ₹ 1,30,000 and ₹ 1,70,000 respectively.

Pass necessary journal entries.

| Q16 | P, Q and R were partners with fixed capital of ₹ 40,000, ₹32,000and ₹24,000.After distributing the profit of ₹48,000 for the year ended 31st March 2022 in their agreed ratio of 3 : 1 : 1it was observed that:<br>(1) Interest on capital was provided at 5% p.a. instead of 8% p.a.<br>(2) Salary of ₹ 30,000 was credited to P instead of Q.<br>You are required to pass a single journal entry in the beginning of the next year to rectify the above omissions.. |

| Q17 | OR Cheese and Slice are equal partners. Their capitals as on April 01, 2022 were Rs. 50,000 and Rs. 1,00,000 respectively. After the accounts for the financialyear ending March 31, 2023 have been prepared, it is observed that interest on capital @ 6% per annum and salary to Cheese @ ₹5,000 per annum, as provided in the partnership deed has notbeen credited to the partners' capital accounts before distribution of profits. You are required to give necessary rectifying entries using P&L adjustment account | |
|-----|---|---|
| Q18 | The average profit earned by a firm is ₹ 80,000 which includes undervaluation of stock of ₹8,000 on average basis. The capital invested in the business is ₹ 8, 00,000 and the normal rate of return is 8% calculate goodwill of the firm on the basis of 7 times the super profit. | |
| Q19 | Given below are two statements, one labelled as Assertion (A) and the other labelled as Reason (R): Assertion (A): Gobind, Hari and Pratap are partners. On retirement of Gobind, the goodwill already appears in the Balance Sheet at ₹ 24,000. The goodwill will be written-off by debiting all partners&#39; capital accounts in their old profit-sharing ratio Reason (R): Goodwill has been earned by the efforts of all partners. In the context of the above two statements, which of the following is correct: (a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A). (b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A). (c) Assertion (A) is true but Reason (R) is false. (d) Assertion (A) is false but Reason (R) is true. | |
| Q20 | Given below are two statements, one labelled as Assertion (A) and the other labelled as Reason (R) Assertion (A): On the admission of a new partner, increase in the value of assets is debited to revaluation account Reason (R): Revaluation account is used to transfer the revalued amount of assets and liabilities. In the context of the above two statements, which of the | |

following is correct:

(a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct
explanation of Assertion (A).

(b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct
explanation of Assertion (A).

(c) Assertion (A) is true but Reason (R) is false.

(d) Assertion (A) is false but Reason (R) is true.

## PHYSICAL EDUCATION

**Project File**

Make a project on Fitness Tests Administration

Practical-1: Fitness tests administration. (SAI Khelo India Test)

Practical-2: Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease.

Practical-3: Anyone one IOA recognized Sport/Game of choice. Labelled diagram of Field & Equipment. Also, mention its Rules, Terminologies & Skills.

## GEOGRAPHY

Q1. Prepare an atlas using given map items.

**Map Items to be shown on political map of the World**

**Fundamentals of Human Geography**

**Chapter No. and Name Map Items**

1-Human Geography                Nil

2-The World Population Density Distribution and Growth      Nil

3-Human Development                Nil

4-Primary Activities

- Areas of subsistence gathering (Fig 4.2)
- Major areas of nomadic herding of the world (4.4)
- Major areas of commercial livestock rearing (4.6)
- Major areas of extensive commercial grain faming (4.12)
- Major areas of mixed farming of the World (4.14)

5-Secondary Activities                Nil

6-Tertiary and Quaternary Activities                Nil

7-Transport, Communication and Trade

- Terminal Stations of Transcontinental Railways– Trans-Siberian, Trans Canadian, Trans-Australian Railways

  **Major Sea Ports**
- Europe: North Cape, London, Hamburg
- North America: Vancouver, San Francisco, New Orleans

- South America: Rio De Janeiro, Colon, Valparaiso
- Africa: Suez and Cape Town
- Asia: Yokohama, Shanghai, Hong Kong, Aden, Karachi, Kolkata
- Australia: Perth, Sydney, Melbourne

 **Major Airports:**
- Asia: Tokyo, Beijing, Mumbai, Jeddah, Aden
- Africa: Johannesburg & Nairobi
- Europe: Moscow, London, Paris, Berlin and Rome
- North America: Chicago, New Orleans, Mexico City
- South America: Buenos Aires, Santiago
- Australia: Darwin and Wellington
- Inland Waterways Suez Canal, Panama Canal, Rhine waterways and St. Lawrence Seaways

8-International Trade                Nil


**Map Items for locating and labelling 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)
2-Human Settlement                Nil
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
4-Water Resources            Nil
5-Mineral And Energy Resources Mines:
- Iron-ore mines: Mayurbhanj, Bailadila, Ratnagiri, Bellary
- 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

6-Planning and Sustainable Development in Indian Context Nil 7-Transport and Communication        Nil
8-International Trade Mark and label the major sea ports and airports on an outline map of India.
- Major Sea Ports: Kandla, Mumbai, Marmagao, Kochi, Mangalore, Tuticorin, Chennai, Vishakhapatnam, Paradwip, Haldia
- International Air ports: Ahmedabad, Mumbai, Bengaluru, Chennai, Kolkata, Guwahati, Delhi, Amritsar, Thiruvananthapuram & Hyderabad.

9-Geographical Perspective on selected issues and problems          Nil

Q2. Complete the following topics in the Practical file:
   1. Data its source and compilation

2. Data Processing
3. Representation of data
   - Construction of Line Graph
   - Bar Graph
   - Poly Graph
   - Line and Bar Graph
   - Multiple Bar Diagram
   - Compound Bar Diagram
   - Pie Diagram

Thematic Maps
   - Dot Map
   - Choropleth Map
   - Isopleth Map

## POLITICAL SCIENCE

Students are to prepare a project report- (could be a ppt, short film, animated film) on the topics indicated per group:

Please note: -

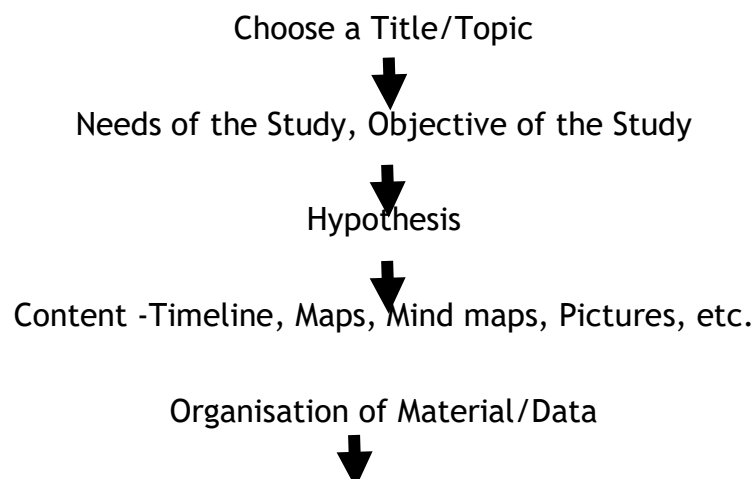Members of the group are/as per CBSE registration Class XI, the sequence cannot be changed.

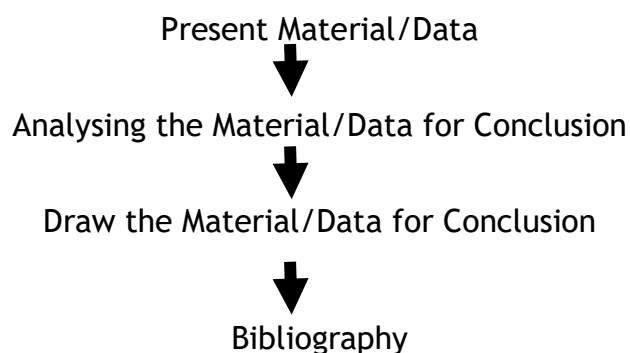Guidelines for Subject having Project Work: 20 Marks

1.**Objectives of project work are to enable the students to:**

- Probe deeper into personal enquiry, initiate action and reflect on knowledge and skills, views etc. acquired during the course of class XI-XII.
- Analyse and evaluate real world scenarios using theoretical constructs and arguments
- Demonstrate the application of critical and creative thinking skills and abilities to produce an independent and extended piece of work
- Follow up aspects in which learners have interest
- Develop the communication skills to argue logically

**2. Steps involved in the conduct of the project:**

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

Choose a Title/Topic

↓

Needs of the Study, Objective of the Study

↓

Hypothesis

↓

Content -Timeline, Maps, Mind maps, Pictures, etc.

Organisation of Material/Data

↓

Present Material/Data

↓

Analysing the Material/Data for Conclusion

↓

Draw the Material/Data for Conclusion

↓

Bibliography

**3. Expected Checklist for the Project work:**

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

**4. Assessment of Project Work:**

- Project Work has broadly the following phases: Synopsis/ Initiation, Data Collection, Data Analysis and Interpretation, Conclusion.
  The project shall be assessed on these aspects.

> **NOTE: THE GROUP LIST IS POSTED ON GOOGLE CLASSROOM. PROJECTS ARE TO BE DONE STRICTLY AS PER THE LIST**

## HOME SCIENCE

On the basis of your understanding of UNIT II- NUTRITION, FOOD SCIENCE AND TECHNOLOGY (CBSE curriculum- 2023-24) conduct and record the following investigatory assignments in a practical file. Paste suitable pictures as evidence wherever necessary.

1. Modification of normal diet to soft diet for elderly people.

*Theme: Modification of a normal diet to a soft diet for elderly person.*

**Tasks:**

1. Interviewing and recording of one day's diet / food intake for an adult (within 60 years of age)
2. Assessing the diet to determine whether it is nutritionally balanced
3. Modifying the diet to suit the needs of an elderly person (beyond the age of 60 years) who needs a soft diet

4. Assessing the modified diet to determine whether it is nutritionally balanced
5. Interacting with an elderly person to determine whether the modified diet is acceptable.

(reference- NCERT text book pg. no. 67) ELESSON_HSC_12_PRAC 1.pdf

2. Development and preparation of supplementary foods for nutrition programme.

*Theme: Plan a Supplementary Food for Nutrition Programme*

Tasks

1. Obtaining the prices of commonly consumed locally available seasonal foods

2. Planning of low-cost recipes for supplementary food for preschoolers attending a Balwadi

3. Preparation of selected recipe

4. Evaluation of prepared recipe

(reference NCERT textbook pg. no. 84) ELESSON_HSC_12_PRAC 2.pdf

3. Planning a menu for a school canteen or mid-day meal in school for a week.

*Theme: Planning a menu for 4 days for a school canteen or one week for a midday meal scheme*

Tasks

1. Identifying the type of foods that can be included in the menu for a school canteen or what is generally recommended for a midday meal scheme
2. Identifying foods that are relatively low cost, locally available and nutritious
3. Planning the menu

(reference NCERT textbook pg. no. 99) ELESSON_HSC_12_PRAC 3.pdf

## PAINTING

"Creativity is inventing, experimenting, growing, taking risks, breaking rules, making mistakes, and having fun." - Mary Lou Cook

1. **A VISIT TO THE ART GALLERY**

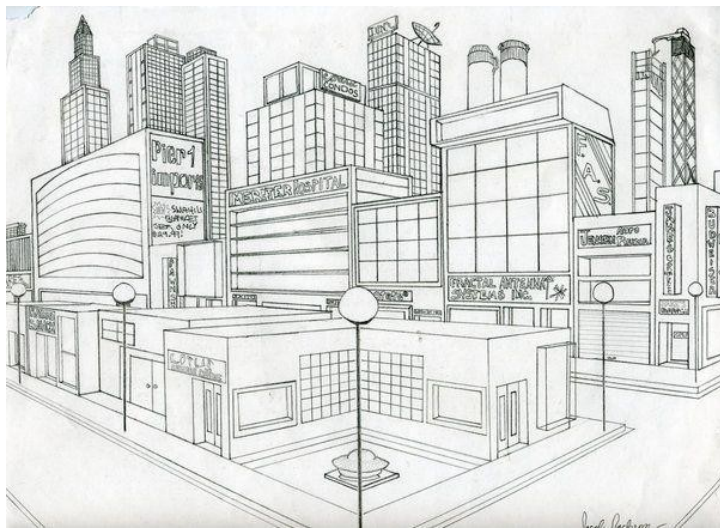   □ **LALIT KALA ACADEMY:** ADDRESS-35, Ferozeshah Rd, Mandi House, New Delhi, Delhi 110001
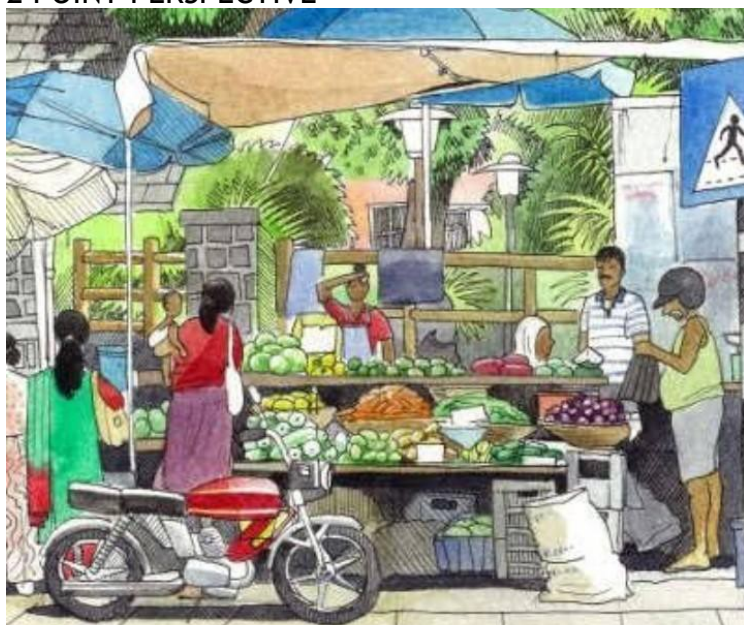
   □ **The National Gallery of Modern Art**

2. **PRACTICAL – CREATE COMPOSITIONS BY USING A 2POINT PERSPECTIVE, COLOUR VALUES IN WHICH HUMAN FIGURES SHOULD HAVE DOMINANCE**
   - **MARKET PLACE -CITYSCAPE**
   - **A VISIT TO ART GALLERY**
   - **METRO STATION**
   - **VEGETABLE MARKET**

2 POINT PERSPECTIVE

**DRAW AND COLOUR STILL-LIFE-(2 OBJECTS)**

- TO INCORPORATE ALL MEASUREMENTS, ONE DRAPERY OF CONTRAST COLOUR, COLOUR TONAL VALUES.



3. THEORY-

REVISE RAJASTHANI AND PAHARI MINIATURE PAINTINGS. (ALREADY DONE IN CLASS)

4. <mark>Regular Sketches in your sketchbook.</mark>



## PSYCHOLOGY

**Q-1. The students will prepare the Case Study file as per the CBSE guidelines. The format for the same is given below.**

**Format of Case Study**

**Front Page:** Case Study [Heading in capital bold letters],

Name, class and section, board roll no. and name of the school (bottom right hand side corner)

## ACKNOWLEDGEMENT

I would like to express my gratitude towards my Psychology teacher Ms. Sheffaly Jain for her cooperation and guidance during the course of my project. Her constant motivation was a source of inspiration which encouraged me to complete this project successfully.

I would also like to thank my subject and her/his family for their co-operation. Immense hard work has been put into this project to keep its working and efficiency high within its limited scope.

NAME:
CLASS:
ROLL NO.: *BOARD ROLLNO*
SESSION: 2022-2023

## CERTIFICATE

This is to certify that _____ [your name] of class XII – __ [your section] has successfully completed this case study under my supervision and this case study may be considered as a part of the practical exam of AISSCE 2020-21 conducted by CBSE.

(leave space for signature)

Ms. Sheffaly Jain
PGT Psychology
Bal Bharati Public School, Pitampura

## INDEX

| S.No. | Particular | Remarks | Signature |
|-------|-----------|---------|-----------|
| 1. | Introduction to Case study | | |
| 2. | Objectives | | |
| 3. | Methods used for Data Collection <br>• Interviews <br>• Observations <br>• Psychological Testing | | |
| 4. | Biographical Data of the Subject | | |
| 5. | Family History <br>• Family Arrangement <br>• Details of Family Members <br>• Family life and Relationship | | |

| 6. | Personal History<br><br>• Medical History<br>• Habits, interests and talents<br>• Professional help taken [if any] | | |
|---|---|---|---|
| 7. | Data Collection | | |
| 8. | Interviews<br><br>• Interview with the subject<br>• Interview with Significant Others | | |
| 9. | Observations | | |
| 10. | Psychological Testing<br><br>• Self-Concept Questionnaire<br>• Maudsley`s Personality Inventory<br>• Adjustment Inventory for School Students | | |
| 11. | Data Analysis | | |
| 12. | Conclusion and suggestions | | |
| 13. | Bibliography | | |

**Note**: Follow the sequence given in the index.

**Q.2 Attempt the following questions in the assignment register.**

### Chapter 2 - Self and Personality

1. Given below are two statements, one labelled as Assertion (A) and the other labelled as Reason (R). Read the statements and choose the correct option: **1**

Assertion (A): Freud's theory holds that many behaviors are caused by unconscious motivation. Personality is determined by biological drives of sex and aggression.

Reason (R): Personality differences results from variations in learning experiences.

   a.    Both (A) and (R) are true and (R) is the correct explanation of (A)
   b.    Both (A) and (R) are true but (R) is not the correct explanation of (A)
   c.    (A) is true, (R) is false
   d.    (A) is false, (R) is true

**2.** A teacher might assume that a well-behaved student is also bright and motivated **1** before they have objectively evaluated the student's capacity in these areas. Identify the phenomenon.

a. Middle Category Bias
b. Social Desirability
c. Halo effect
d. Extreme Response Bias

**3.** Read the following case study and answer the next three questions based on it. **4**

Sumit is a chirpy, gregarious and a fun-loving individual when he is around his friends and family. But he is often seen to be serious and quiet around his boss and other authority figures. If you talk to his friends, they usually will talk very highly of Sumit but if you listen carefully, you will realize that while describing him, Sumit's friends usually talk only about his likes and dislikes, his style of clothing, his jokes and preferences in general. To think about it, there was actually no one who truly knew what kind of a person Sumit was at a deeper level.

1. Which aspect is being depicted in Sumit's sudden change of behaviour in front of his boss?
a. Individual differences
b. Situationism
c. Introversion
d. Neuroticism

2. According to Allport's theory, which traits do Sumit's friends focus on while describing him?
a. Cardinal traits
b. Central traits
c. Secondary traits
d. All of the above

3. "Sumit is a chirpy, gregarious and a fun-loving individual when he is around his friends and family." Which traits are being described in this line? *
a. Cardinal traits
b. Central traits
c. Secondary traits
d. All of the above

4. According to Cattell, surface traits are caused by interaction of behaviors.
- True
- False

**4.** Given below are two statements, one labelled as Assertion(A) and the other labelled **1** as Reason (R). Read the statements and choose the correct option:

Assertion (A): personal self emphasizes aspects of life such as personal freedom, personal responsibility, personal achievement, or personal comforts.

Reason (R): personal self leads to an orientation in which one feels primarily concerned with oneself.

 a. Both (A) and (R) are true and (R) is the correct explanation of (A)
 b. Both (A) and (R) are true but (R) is not the correct explanation of (A)
 c. (A) is true, (R) is false
 d. (A) is false, (R) is true

**5.** Bhavesh often acts so daring and overly confident that few people realize that he **1** is actually ridden with unconscious insecurity and self-doubt. His behavior illustrates –
 a. Projection
 b. Reaction formation
 c. Rationalization
 d. Repression

**6.** Ivaan reaches the genital stage of psychosexual development. Which of the **1** following is/are NOT TRUE about this stage?
  i. Ivaan has attained maturity in psychosexual development.
  ii. This stage lasts from about seven years until puberty.
  iii) Physical growth continues and much of Ivaan's energy is channeled into social or achievement- related activities.
  iv. Ivaan's sexuality, fears and repressed feelings of earlier stages are once again exhibited in this stage.

 a. i, ii,and iv
 b. ii
 c. ii and iii
 d. i and iii

**7.** Jung used the term "Collective Unconscious" to indicate: **1**
a. The effects of all the unconscious urges which made a person's behavior problematic.
b. All the factors that together constitute to strengthen an individual's unconscious.
c. The unconscious tendencies inherited by an individual from primordial racial tendencies.
d. The unconscious potential of a group or mob

**8.** The Minnesota Multiphasic Personality Inventory helps to diagnose _____. **1**

i. Neuroticism, psychoticism
ii. Sociability, PTSD
iii. Psychasthenia, schizophrenia
iv. Paranoia, depression

Choose the correct option

  a. i, iii
  b. ii, i
  c. iii, iv
  d. ii, iv

**9.** Which of the following statements are TRUE about self as an object?   **1**

i. Self is an entity that does something.
ii. Self is being described as a knower.
iii. Self gets observed and comes to be known.
iv. Self is an entity on which something is being done.

Choose the correct option
  a. i, iii
  b. ii, i
  c. i, iv
  d. iii, iv

**10.** Explain the interactional approach to understand personality.   **2**

**11.** Refer to the picture given below and answer the questions that follow:   **3**



1. Which theory does this image represent?
a.   Psychodynamic
b.   Post-Freudian
c.   Humanistic
d.   Cultural

2.   Ego functions include all of the following except:
a.   Reality testing

b.      Control of primary drives

c.      Defence mechanisms

d.      internalizing parental authority

3.      Id is energized by two instinctual forces, called life instinct and death instinct.

      These instincts will be present in the –

a.      Conscious

b.      Sub-conscious

c.      Unconscious

d.      Both Sub-conscious and unconscious

**12.** Differentiate between type and trait approaches.                                              3

**13.** Mother Teresa believed that she had a mission to fulfil and did what came natural     4
to her, loving others and serving them. Identify the trait being referred to here by
Gordon Allport and how it affects a person's behaviour. Distinguish it from other
traits given by him.

**14.** How do projective techniques assess personality? Explain any two well-known      6
projective techniques.

**15.** Anand wants to become a musician even though he belongs to a family of     6
doctors. He wishes to fulfill his potential. Using Carl Rogers' terminology,
describe this perspective as revealed by Anand's personality.

**16.** Majid belongs to a family of farmers. His uncle and cousins are mostly like him     6
as they too belong to an agricultural society. He is socialised to be obedient to
elders, nurturant to youngsters and responsible to his duties.

Referring to Majid, how does cultural approach attempt to understand
personality in relation to the features of ecological and cultural environment ?
How would the same be impacted by non-agricultural societies ? Explain.

**17.** How does behavioral analysis help us in assessing personality? Explain any two      6
methods of behavioral analysis with their limitations.

## Chapter 4 - Psychological Disorders

**1.** Vikas lags behind his peers in language and motor skills. He is trained in self-care     1
as well as in simple social and communication skills. He also needs little
supervision in everyday tasks. He is likely to be at the _____ level of intellectual
disability.

      a. Mild (IQs 55 to approximately 70)

      b. Moderate (IQs 35-40 to approximately 50-55)

      c. Severe (IQs 20-25 to approximately 35-40)

      d. Profound (IQs below 20-25)

**2.** State any two differences between somatic symptom and illness anxiety disorder.      2

**3.** Read the case and answer the questions that follow:                                                3

Vinay graduated from college and got a job at the local grocery store. After working for about 6 months he began to hear voices that told him he was no good. He also began to believe that his supervisor was planting small video cameras in the shop to catch him making mistakes. He would take long detours on way back home as he felt his supervisor was following him home. He reported smelling strange odors in the shop. He told his family that the supervisor might kill him by gassing the shop. Once he slapped a customer and later said that somebody else had slapped the customer using his hand. He later left the job saying his supervisor was plotting to kill him. No evidence was found to support his allegations.

> 1. Which disorder does Vinay seem to be suffering from?
>     a.) Dissociative Identity Disorder
>     b.) Depersonalisation Disorder
>     c.) Schizophrenia
> 2. What type of symptoms are being exhibited by Vinay?
>     a.) Positive symptoms
>     b.) Negative symptoms
>     c.) Catatonic symptoms
> 3. Identify the type of delusion being exhibited in the statement, "Once he slapped a customer and later said that somebody else had slapped the customer using his hand". a.) Delusion of persecution
>     b.) Delusion of grandeur
>     c.) Delusion of reference
>     d.) Delusion of control

**4.** Richa is a young girl working as an officer in an organisation. One day she just disappeared from the city and after two years she was found on the banks of a river. Nobody there knew who she was and where she wanted to know how she had reached the banks of the river. Explain this disorder and list the other disorders in the same category.    **3**

**5.** Read the case and answer the questions that follow.    **4**

Malay, a student of class IX, was referred to a mental health clinic with complaints of stealing money, excessive lying, setting fire to household items, teasing young girls of the locality, and passing lewd remarks and making obscene gestures. The onset was about three years ago and has increased over the past eight months. Of late, he has started using alcohol and spending more time outdoors with friends of similar interest. School reports suggested gradual development of inappropriate behaviours such as openly defying rules in school, playing truant, instigating fellow students to pass silly remarks in class, disrespectful attitude towards elders ultimately resulting in frequent school absenteeism, mixing with local goons and excessive aggression. Further investigation revealed that family history is disturbed, relationship with father was extremely hostile and there were frequent conflicts amongst the family members. Birth and developmental milestones are normal.

1. Identify the disorder Malay is exhibiting. Distinguish it from Attention – Deficit/ Hyperactivity Disorder (ADHD).                    2 marks

2. How would the socio-cultural model help us to understand Malay's disorder?
                                                                    2 marks

**6.** Read the case and answer the questions that follow.
Mr. John is a twenty-seven year old man who consulted a psychologist to discuss what he calls his 'silly habits'. He reports that for several years he had to check and recheck electrical appliances, as well as doors and windows, before leaving home each morning and again before going to bed. At times, the checking has made him late for work and has disturbed his sleep such that he had to get up to check everything several times yet again. When questioned about the reasons for this behaviour, Mr. John reported that he could not stop thinking that electrical appliances may short circuit and cause a disastrous fire or that his house may be broken into and he will lose all valuables. He recognises these concerns and the resulting checking as excessive and unreasonable, yet feels compelled to do something to alleviate the anxiety associated with the thoughts. During counselling, the psychologist found out that some time before the checking rituals 5 started, a major fire had broken in Mr. John's office and all important papers were destroyed.

1. Identify Mr. John's disorder.
    a. Generalised anxiety disorder
    b. Major depressive disorders
    c. Obsessive - compulsive disorder
    d. Somatic symptom disorder

2. Which of the following statements represents his repetitive thoughts?
    a. For a number of years, he had to check and recheck electrical appliances.
    b. He had to get up to check everything a number of times.
    c. The checking has made him late for work.
    d. He could not stop thinking that electrical appliances may short circuit and cause a disastrous fire.

3. Which disorder also comes under the category of obsessive-compulsive and related disorders?
    a. Excoriation disorder
    b. Acute stress disorder
    c. Adjustment disorder
    d. Cyclothymic disorder

**7.** Read the case and answer the questions that follow.                    **4**

Harish belonged to a family of four children, him being the eldest. Unlike any first born, he was not given the attention he should have had. His father worked as an accountant, while his mother stayed at home to look after the kids. He dropped out of school and could barely manage to get work for a little salary.

His relationship with his family played an important role in building his disposition. He felt a certain feeling of insecurity with his siblings, especially his brother Tarun, who was able to finish college because of parental support.

Due to the hopelessness Harish felt, he started engaging in drinking alcohol with his high school friends. Parental negligence caused emotional turmoil. He also had insomnia which he used as a reason for drinking every night.

Over time, Harish had to drink more to feel the effects of the alcohol. He got grouchy or shaky and had other symptoms when he was not able to drink or when he tried to quit. His school implemented a variety of early intervention strategies which did not help him as he was irregular and soon left school.

1. List the two defining characteristics of substance abuse and mention the instances
from the above passage that are suggestive of them.
2 marks

2. Based on the provided information, show how a behavioural therapist would present the behavioural analysis of Harish's case.
2 marks

8. Naresh's fear of furry objects was explained both by social learning theory as well as psychoanalytic theory. How would both theorists account for the same fear? Explain. **4**

9. Explain abnormality. Trace a brief history of how our understanding of psychological disorders has evolved to its current status. **6**

10. Explain the different psychological models used to explain abnormal behaviour. **6**

## HISTORY

**Art Integration Activity : HARRAPAN CIVILIZATION**

**Learning Outcomes**

**Each student will be able to:**

1. Develop analytical and observational skills by examining artifacts in order to accurately represent them in their sketches.

2. Develop critical thinking skills by considering the historical context of the artifact, their function and purpose in the Indus Valley Civilization.

3. Using sketching as an art form students will sketch any one artifact associated with the Indus Valley civilization on an A-4 size sheet.  (Pencil Sketch)

4. Thereafter they will briefly describe it use in the daily lives of the people.