

**ENGLISH CORE**

**★ PROJECT WORK**

**Project work is to be prepared as per the instructions listed below.**

1. The entire project should be in file format.
2. The project should be handwritten in blue/black ink. (Highlighters may be used.)
3. The project report should be developed in the following sequence—
  - Cover Page: School Name, Logo, Title of the Project, Name of the Student and Session
  - Index (List of Contents)
  - Acknowledgement and Preface
  - Certificate
  - Introduction (Purpose of the Project)
  - Detailed Project
  - Learning Outcomes/Experiences
    - The project should include illustrations/photos/sketches as per the need and suitability of the presentation.

**With reference to the chapter “The Last Lesson”, express your views on:**

***“Language and Identity — A Heritage That Must Be Preserved.”***

Refer to the importance of mother tongue, linguistic identity and cultural heritage in modern society. Highlight how language preserves traditions, emotional belonging and national identity.

(You may include relevant statistics, survey findings, newspaper reports, quotations, slogans, charts or graphs related to endangered languages, linguistic diversity and preservation of regional languages in India and other parts of the world.)

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**General Instructions :**

- ✓ Use original ideas.
- ✓ Avoid copying directly from sources available on the Internet.

## **ACCOUNTANCY**

### **PROJECT WORK**

TOPIC : **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

**Note:** Students will prepare Comparative and Common Size Balance Sheet and Statement of Profit and Loss on the Financial Statements of different companies as already provided.

The format for presentation of report which should be arranged in the following sequence:

- a) External cover page
- b) Acknowledgement
- c) Certificate
- d) Executive summary
- e) Index
- f) Introduction of the Topic (Introduction, objectives)
- g) Comparative Statements
- h) Common Size Statements

## **BUSINESS STUDIES**

### **PROJECT WORK**

TOPIC : Students will choose **any one** of the following topics:

- 1) Elements of business environment
- 2) Principles of management
- 3) Stock exchange
- 4) Marketing

The project report will be developed in the following sequence:

=> Cover page should project the title, student information, school and year.

=> Acknowledgements and preface (acknowledging the institution, the newspapers read, T.V. channels viewed, places visited and persons who have helped).

=> Certificate

=> List of contents.

=> Introduction.

=> Topic with suitable heading.

=> Planning and activities done during the project, if any.

=> Observations and findings while conducting the project.

=> News paper clippings to reflect the changes of share prices.

=> Conclusions (summarised suggestions or findings, future scope of study).

=> Appendix (if needed).

=> Teachers report.

## **ECONOMICS**

**Prepare a Project Report on any one topic from the following:**

1. Any topic from Macroeconomics and Indian Economy
2. Any current Economic issue or any other chapter from the syllabus can also be selected.

**Note:**

Use Interleaf page to write your project .

Paste and Draw relevant picture (Use White sheet or page)

Project should be completely handwritten .

**Project should have the following:**

1. Index
2. Acknowledgement
3. Introduction to the topic
3. Content of the project
4. Research work.
5. Conclusion
6. Bibliography

Follow all the instructions given in class related to the project work.

## **ENTREPRENEURSHIP**

### **PROJECT WORK**

**TOPIC : MARKET SURVEY(Any ONE of the following to be chosen)**

A. Conduct a simple market research with the objective of estimating demand for an existing product in the market. Students will have to give an innovative suggestion to the product.

OR

B. Conduct a survey for a new innovative product.

The format for presentation of report which should be arranged in the following sequence:

- a) External cover page
- b) Acknowledgement
- c) Certificate
- d) Executive summary
- e) Index
- f) Introduction to the topic (Introduction, objectives)
- g) Questionnaire(Comprising 10 questions)

## **INFORMATICS PRACTICES**

1. Write a Pandas program to create data series and then change the index of the series objects in any random order.
2. Write a Pandas program to add, subtract, multiple and divide two Pandas Series.
3. Write a Python Program to perform head() & tail () Functions on dataframe.
4. Write a Python Program to create the dataframe and selecting rows/column using loc and iloc function.
5. Write a program that reads from a csv file (marks.csv stored in desired location) in a data frame then add a column Total storing total marks in three subjects and another column for storing average marks. Print the data frame after adding these columns.

6. **SQL QUERIES BASED ON EMPL TABLE**

**Table : EMPL**

empno	ename	job	mgr	hiredate	sal	comm	deptno
8369	SMITH	CLERK	8902	1990-12-18	800.00	NULL	20
8499	ANYA	SALESMAN	8698	1991-02-20	1600.00	300.00	30
8521	SETH	SALESMAN	8698	1991-02-22	1250.00	500.00	30
8566	MAHADEVAN	MANAGER	8839	1991-04-02	2985.00	NULL	20
8654	MOMIN	SALESMAN	8698	1991-09-28	1250.00	1400.00	30
8698	BINA	MANAGER	8839	1991-05-01	2850.00	NULL	30
8882	SHIAVNSH	MANAGER	8839	1991-06-09	2450.00	NULL	10
8888	SCOTT	ANALYST	8566	1992-12-09	3000.00	NULL	20
8839	AMIR	PRESIDENT	NULL	1991-11-18	5000.00	NULL	10
8844	KULDEEP	SALESMAN	8698	1991-09-08	1500.00	0.00	30
8886	ANOOP	CLERK	8888	1993-01-12	1100.00	NULL	20
8900	JATIN	CLERK	8698	1991-12-03	950.00	NULL	30
8902	FAKIR	ANALYST	8566	1991-12-03	3000.00	NULL	20
8934	MITA	CLERK	8882	1992-01-23	1300.00	NULL	10

- a) Write a query to display EName and Sal of Employees whose salary is greater than or equal to 3000 from table EMPL.
- b) Write a Query to display Employee Number, name, sal and sal\*12 as Annual Salary whose commission is not NULL from table EMPL.
- c) Write a Query to display name, job, salary, and HireDate of Employees who are hired between February 20, 1991, and May 1, 1991. Order the query in ascending order of HireDate.
- d) Display distinct JOB of Employee from table EMPL.
- e) Write a Query to display the name of Employee whose name contains 'M' as third alphabet.
- f) Write a query to display the current system date.
- g) Write a Query to display Employee number, name, salary, salary increase by 15%. Label the column as New Salary.
- h) Write a query which displays the Employee name with the first letter capitalized and all other letters lower case and length of there name string.
- i) Write a Query to Display the Sum, Average, Highest and Lowest salary of the Employees grouped by department number.
- j) Write a query to display the difference of Highest and lowest salary of each department having maximum salary > 4000.

## **BANKING**

Download the Balance Sheet of a public sector bank and a private sector bank as at 31st March of current year from their websites and compare the composition of their deposits like % of demand deposits to total deposits, Profitability, composition of their loans, Total interest earned etc. and comment which sector bank is better managed from profit point of view.

### **Guidelines for Project Preparation:**

The final project work should encompass chapters on:

- a. Introduction
- b. Identification of core and advance issues
- c. Learning and understanding and
- d. Observation during the project period.

### **Project should have the following:**

1. Index
2. Acknowledgement
3. Introduction to the topic
3. Content of the project
4. Research work.
5. Conclusion
6. Bibliography

Follow all the instructions given in class related to the project work.

## **APPLIED MATHEMATICS**

### **PROJECT WORK(use shoelace file)**

#### **TOPIC:-**

Each day the newspaper tells us about the maximum temperature, minimum temperature and humidity. Collect the data for a period of 15 days and represent it graphically. Compare it with the data available for the same time period for the previous year.

## FORMAT TO BE FOLLOWED:-

**a)1st Page**-Name of the school, Investigatory Project, name, class, section,roll number, subject, Guide teachers' name

**b)2nd Page**-Certificate

**c)3rd Page**-Acknowledgement

**d)4thPage**-Index

## ANSWER THE FOLLOWING QUESTIONS:-

1. A man can row 7.5 km/hr. in still water . If the stream is flowing at the rate of 1.5 km/hr, it takes him 50 mins to row to a place and return , how far is the place ? 1  
(a) 3 km (b) 2 km (c) 4 km (d) 2.5 km
2.  $[(3 \times 7) + 5] \text{ mod } 4$  is 1  
(a) 3 (b) 2 (c) 4 (d) 5
3. In a 50 m race , A can give a start of 5 m to B and a start of 14 m to C . In the same race how much start can B give to C ? 1  
(a) 9 (b) 10 (c) 12 (d) 11
4. In what ratio does a grocer mix two varieties of pulses worth Rs.85 per kg and Rs. 100 per kg respectively so as to get a mixture worth Rs. 92 per kg ? 2
5. If A is a square matrix of order 3 such that  $\det(\text{adj}(A)) = 64$ , find  $\det(\text{transpose}(\text{Adj}A))$  2
6. A cistern can be filled by two taps A and B in 12 hours and 16 hours respectively . The full cistern can be emptied by a third tap C in 8 hours. If all the taps are turned on at the same time , in how much time will the empty cistern be filled completely ? 3

## PHYSICAL EDUCATION

### **1. PRACTICAL – 1 (Procedure, Benefits and Contraindications of Asanas for Lifestyle Diseases)**

**Objective:** To understand the correct techniques, therapeutic benefits, and safety precautions of selected yogic asanas used in the prevention and management of common lifestyle diseases.

#### **Lifestyle Diseases and Related Asanas:**

- **Obesity** – Tadasana, Halasana
- **Diabetes** – Paschimottanasana, Ardha Matsyendrasana
- **Asthma** – Gomukhasana, Bhujangasana
- **Hypertension** – Katichakrasana, Makarasana
- **Back Pain / Arthritis** – Ardha Chakrasana, Ushtrasana

#### **For Each Disease and Asana, Include:**

- Definition of the Disease
- Step-wise Procedure of the Asanas
- Posture Sketch / picture of Asanas
- Benefits of the Asanas
- Contraindications of Asanas

## 2. PRACTICAL – 2 (IOA-Recognized Sports / Games)

Select Any One Sport / Game: Volleyball / Kho-Kho /Badminton / Football /Handball

### **Include the Following Details:**

- Introduction of the Game
- Labelled Diagram of Court / Field with Dimensions
- Equipment Used
- Basic Rules and Regulations
- Important Terminologies
- Fundamental Skills / Techniques
- Names of Important National or International Tournaments

### **Instructions:**

- Maintain neatness and proper presentation.
- Draw diagrams using pencil and scale.
- Submit the practical file after the vacation as instructed by the subject teacher.

## **PAINTING**

1. Still life 3 or 4 sheets (pencil shade and colour)
2. composition 2 or 3 sheets (use any colour)
3. Folk art 1 or 2 sheets (use any colour)

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