



## **Dear Students**

Wishing you a summer vacation filled with peace, tranquility, and the freedom to wander wherever your heart desires. Along with the vacations studies are equally required to stay in touch with. Holiday homework of all the subjects is mentioned along with the instructions and methodology to prepare your project work.

**KINDLY NOTE THE DATE TO SUBMIT YOUR PROJECT WORK: JULY 2'2024.  
HOLIDAY HOMEWORK HAS BEEN UPLOADED ON THE SCHOOL WEBSITE ALSO.**

## **SUBJECT: ENGLISH PROJECT WORK**

### **Instructions:**

Project work should be done in thread cardboard file and in white colored practical pages only a project should have the following outline:

1. Index, Acknowledgement and Certificate
2. Objectives
3. Content about the assigned text
4. Pictures
5. Conclusion
6. Bibliography

### **1) THE LAST LESSON- FREEDOM OF SPEECH AND EXPRESSION (Roll No.1-6)**

- Linguistic chauvinism
- Importance of Language
- Globalization of Language
- Franco-Prussian War
- Historical References of Events wherein linguistic identity was threatened/ snatched

### **2) LOST SPRING-LIFE IN A SLUM (Roll No.7-14)**

- Research and case study of a slum.
- Life of the people in a slum
- Education
- Health and Infrastructure
- Government Initiatives
- Role of youth in the upliftment of the weaker sections of the society
- Comparative Study of Slums
- Slums of yesterday turned to cities of today

### **3) DEEP WATER- PHOBIA (Roll No.15-21)**

- Phobias and fears of people.
- Psychological and emotional impact.
- How to overcome.
- Impact on one's life and society
- Case Study

### **4) RATTRAP-THE STUDY OF CRIME AND CRIMINALS (Roll No.22 -26)**

- Circumstances that lead to crime.
- Case Study

- Corrective Measures
- Impact of Criminal Behaviour on Society
- How to bring them into mainstream.
- Attitude of society towards criminals.

### 5) KEEPING QUIET (POEM) (Roll No.27-33)

- Introduction to Keeping Quiet
- Historical and Cultural Context of Keeping Quiet
- Analysis of the Poem's themes and Poetic Devices
- The Importance of Silence and Stillness in Contemporary society
- The relevance of 'Keeping Quiet' in the 21<sup>st</sup> Century
- Conclusion and reflection on the significance of "Keeping Quiet"

## SUBJECT: ECONOMICS PROJECT WORK

### Instructions:

Project work should be done in thread cardboard file and in white colored practical pages only  
Project should contain minimum 35 pages and maximum 40 pages.

A project should have the following outline:

1. Index, Acknowledgement and Certificate
2. Introduction
3. Topic explanation
  - Topic research.
  - Two Case studies of your Topic
  - Government involvement strategies Schemes/Policies (if any)
4. Conclusion
5. Bibliography

### **Points mandatory to be mentioned in the project:**

1. Make your own research about the topic.
2. Meaning should be clear.
3. Project should be self explanatory.
4. Labeling of the pictures should be done properly.
5. Don't copy it from the book.
6. It should be **info-graphic**.

Project Topic		
Self-help Group	Adarsh Kumar	Manthan Vij
Sarwa Sikhsha Abhiyan (CostRatio benefit)	Aliza Mukhtaar	Manav Negi
Digital India- Step Towards future	Aadil Ahmed	Anant Upadhya
Food supply channel in India	Shivangi Rana	Tamana
Role of RBI in control of Credit	Shivam ranawat	Mahi Jain
Government Budget and its components	Vibhanshu Singh	Priyanshi Rawat
Micro and Small scale industries	Saumya Gupta	Sarthak Rawat
Disinvestment policy of the Government	Zaina Rao	Sanchit Kala
Trends of credit availability in India	Kanishka	Suryansh Thapa
Trends in budgetary conditions of India	Md. Huzaif	Sayed Md. Zaidan
Minimum support Prices	Yeshi Sangmo	

Monetary Policy committee and its function	Himanshi Chettri	
Goods and Service tax act and Its Impact on GDP	Ibrahim	
Currency War- reason and repercussions	Atishey Jain	
Contemporary Employment situation in India	Mayank Kumar	
Health Expenditure (any state)	Kshitiz	

## **SUBJECT: BUSINESS STUDIES PROJECT WORK**

### **INSTRUCTIONS:**

Project work should be done in thread cardboard file and in Green colored practical pages only.

Project should contain minimum 35 pages and maximum 40 pages.

A project should have the following outline:

2. Index, Acknowledgement and Certificate
3. Introduction
4. Topic explanation (Topic research)
5. 2 case Studies based on the topic.
6. Conclusion
7. Bibliography

### **Points mandatory to be mentioned in the project:**

1. Make your own research about the topic.
2. Meaning should be clear.
3. Project should be self explanatory.
4. Labeling of the pictures should be done properly.
5. Don't copy it from the book.
6. It should be **info-graphic**.

<b>Project Topic</b>	
Principals of Management	Adarsh Kumar
Business environment (Dimensions)	Aliza Mukhtaar
Planning and types of planning	Aadil Ahmed
Organisation Structure	Shivangi Rana
Recruitment(Staffing)	Shivam ranawat
Consumer Protection	Vibhanshu Singh
Advertising and Advertisements	Saumya Gupta
Motivation(Directing)	Zaina Rao
Financial Market	Kanishka
Financial Management and its decisions	Md. Huzaif
Leadership (Directing)	Yeshi Sangmo
Sales promotion and Public Relation	Himanshi Chettri
SEBI and trading procedure on stock exchange	Ibrahim
Delegation and Decentralization	Atishey Jain

Scientific Management(Principles and Techniques)	Mayank Kumar
Selection(Staffing)	Kshitiz
Communication(Directing)	Manthan Vij
Capital structure	Manav Negi
Marketing and marketing Mix Controlling	Anant Upadhya
Personal Selling (Marketing management)	Tamana
Training and Development(Staffing)	Mahi Jain
Coordination (Management)	Priyanshi Rawat
Demonetisation and Impact of Government Policy	Sarthak Rawat
Controlling	Sanchit Kala
Financial Planning	Suryansh Thapa
Management	Sayed Md. Zaidan

## **SUBJECT: ACCOUNTANCY PROJECT WORK**

### **Instructions:**

Project work should be done in thread cardboard file and in Blue colored practical pages only.

Project should contain minimum 35 pages and maximum 40 pages.

Prepare project file of

Specific project – 1 (Accounting ratio)

Specific project – 2 (Cash flow statement)

Contents:-

1. Index
2. Acknowledgement
3. Certificate
4. Practical problem of Accounting ratio
5. Computation of all the ratios
6. Practical problem of cash flow statement
7. Computation of all activities
8. Bibliography
9. Conclusion.

## **SUBJECT: PHYSICAL EDUCATION PROJECT WORK**

1. Prepare an assignment on Yoga any five asanas.

2. Make a project file on your major Game.

### **3. Instructions:**

1. The project must be done individually.

2. Content should be clear.

3. Note- file should be covered with WHITE chart paper with proper outer cover containing the school logo and other details.

Under the following heads--

1. Certificate

2. Acknowledgement

3. Index

4. Topic

5. Introduction

6. Content

7. Bibliography  
Support your project with pictures.

## SUBJECT: MATHEMATICS

Assignments to be done in notebook.

### ASSIGNMENT 1

1. If A is the square matrix of order 3 such that  $|\text{adj}A| = 64$ , find  $|A|$
2. If  $A = \begin{bmatrix} 1 & 2 \\ 4 & 2 \end{bmatrix}$ , then find k if  $|2A| = k|A|$
3. Let P and Q be two matrices of order  $2 \times n$  and  $2 \times p$  respectively. If  $n=p$ , then find the order of  $4P-3Q$ .
4. Find the transpose of the following matrix  
 $\begin{bmatrix} 1 & 2 & -5 \end{bmatrix}$
5. Find the value of x:  $\begin{bmatrix} x & 2 \\ 18 & x \end{bmatrix} = \begin{bmatrix} 6 & 2 \\ 18 & 6 \end{bmatrix}$
6. For What value of x, the matrix  
 $A = \begin{bmatrix} 0 & 1 & -2 \\ -1 & 0 & 3 \\ x & -3 & 0 \end{bmatrix}$  a skew symmetric matrix.

### ASSIGNMENT 2

7. If  $\begin{vmatrix} 2x & 3 \\ -1 & x \end{vmatrix}$ , find the integral value of x
8. Evaluate the following :  $\begin{bmatrix} a & b \\ c & d \end{bmatrix} + \begin{bmatrix} a & b & c \\ b & c & d \end{bmatrix}$
9. Find the equation of line joining (1,2) and (3,6) using determinants.
10. If A is a square matrix such that  $A^2 = A$ , Then evaluate  $(i+A)^3 - 7A$

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

12. Construct a 2x2 matrix whose elements are given by

$$a_{ij} = \begin{cases} i-j & \text{if } i \geq j \\ i+j & \text{if } i < j \end{cases}$$

### ASSIGNMENT 3

13. Find the value of  $\tan^{-1}(1) + \cos^{-1}\left(-\frac{1}{2}\right) + \sin^{-1}\left(-\frac{1}{2}\right)$

14. Evaluate  $\sin\left(\frac{\pi}{3} - \sin^{-1}\left(-\frac{1}{2}\right)\right)$

15. Using elementary transformations, find the inverse of the matrix

$$\begin{bmatrix} 0 & 1 & 2 \\ 1 & 2 & 3 \\ 3 & 1 & 1 \end{bmatrix}$$

16. Prove that  $\tan^{-1}\left(\frac{1}{2}\right) + \tan^{-1}\left(\frac{2}{11}\right) = \tan^{-1}\left(\frac{3}{4}\right)$

17. A trust wishes to invest a part of Rs. 10000 of its fund into three investments at a rate of 10%, 12% and 15% per annum respectively. If the total annual income is 1310 and the income from third investment is Rs. 190 more than the combined income from first and second investment. Using matrix method, find the amount to be invested in three types of investment.

18. Evaluate:-

$$\begin{bmatrix} \cos A \cos B & \cos A \sin B & -\sin A \\ -\sin B & \cos B & 0 \\ \sin A \cos B & \sin A \sin B & \cos A \end{bmatrix}$$

### ASSIGNMENT 4

19.  $Z = 13x - 15y$  subject to the constraints:  $x + y \leq 7$ ,  
 $2x - 3y + 6 \geq 0, x \geq 0, y \geq 0$ .

20. A diet is to contain at least 80 units of Vitamin A and 100 units of minerals. Two foods A and B are available, Food A costs Rs. 4 per unit and B costs Rs. 6 per unit. One unit of food contains 3 units of vitamin A and 4 units of minerals. One unit of food B contains 6 units of vitamin A and 3 units of minerals. Formulate this problem as a LPP and find graphically the minimum cost for diet that consists of mixture of these two foods and also meets the minimal nutritional requirements.

**SUBJECT: INFORMATICS PRACTICE PROJECT WORK**

**1. PRACTICAL WORK**

All Students need to prepare the Practical File with the following programs.

1. Create a panda series from a dictionary of values and array.
2. Write a Pandas program to perform arithmetic operations on two Pandas Series.
3. Write a Pandas program to add some data to an existing Series.
4. Write a Pandas program to select the rows where the percentage greater than 70.
5. Write a Pandas program to select the rows where the percentage is between 70 and 90 (inclusive).
6. Write a Pandas program to change the percentage in a given row by the user.
7. Write a Pandas program to join the two given data frames along rows and assign all data.
8. Write a Pandas program to join the two given data frames along with columns and assign all data.
9. Write a Pandas program to append a list of dictionaries or series to an existing DataFrame and display the combined data.
10. Write a Program to select or filter rows from a Data Frame based on values in columns in pandas (Use of Relational and Logical Operators)

**2. PROJECT WORK**

**Make project on the given topic as per the List stated below:**

S.No	Group Topics	Student Name
1	Car Sales Analyzer	1. Harshit Maurya 2. Arsh 3. Mohd. Zaidan
2	Analysis Of Crime Record	1. Akshat Bhandari 2. Anvi Arora 3. Himanshi Chettri

3	Analysis of Vegetable Price	1. Divyansh Malik 2. Rishabh Mudgal 3. Kapish Bhardwaj
4	Analysis of Olympics Games	1. Himanshu Bhatt 2. Parv Gautam 3. Daksh Basera
5	Analysis of Asiad Games	1. Shambhavi Tiwari 2. Ishmeet Kaur 3. Subhangi Sharma
6	Growth Of Population in the state of Uttrakhand.	1. Saloni Negi 2. Mahi Bhandari 3. Alfisha
7	<b>Growth of Export and import in India.</b>	1. Aadil Ahmed 2. Shivam Ranawat 3. Phuntsok Gelek
8	Analysis of Rise of Global Temp.	1. Arjun Saini 2. Aditya Saini 3. Suryansh Bacchetti
9	Analysis of Electric Vehicle Sales Analyzer	1. Mahi Jain 2. Neel Karan 3. Devansh Singh Sengar
10	Analysis of Literacy Rate in India	1. Aditya Gaur 2. Ansh Saxena 3. Rudra Pant
11	<b>Analysis of Change of India Rupee with Foreign Currency</b>	1. Manthan Vij 2. Ibharim 3. Akul Agarwal