

**ARMY PUBLIC SCHOOL KANPUR**  
**HOLIDAY HOMEWORK- (2022-23)**  
**CLASS- XII**

**SUBJECT- ECONOMICS, ACCOUNTANCY & BUSINESS STUDIES**

**ECONOMICS(Prepare a Project File on any one of the following topics)**

- Goods and Services Tax Act and its Impact on GDP
  - Role of RBI in Control of Credit
- OR Role of RBI in control of Inflation and Deflation in Economy.
- Government Budget & its Components
  - Exchange Rate determination
  - Digital India- Step towards the future
  - Make in India – The way ahead

**BUSINESS STUDIES (Prepare a Project file on any one of the following topics)**

I. Project One: Elements of Business Environment

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

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

Fayol's principles

OR

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

Scientific techniques of management.

**ACCOUNTANCY**

Prepare a Comprehensive Project File on the venture started by any Proprietor or any partner, Showing its Journal, Ledger and Final Account.

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

1. The total project will be in a file format, consisting of the recordings of the value of shares and the graphs, Pictures and flow chart. Minimum Page: 25
2. The project will be handwritten and should be on A4 Size
3. The project will be presented in a neat folder
4. The project report will be developed in the following sequence- a. Cover page should include project title, student information, school and year.
  - b List of contents
  - c. Acknowledgements and preface (acknowledging the institution, the news papers read, T.V. channels viewed, places visited and persons who have helped).
  - d. Introduction.
  - e. Topic with suitable heading
  - f. Planning and activities done during the project, if any.
  - g Observations and findings while conducting the project.  
( News paper clippings to reflect the changes of share prices.)
  - h. Conclusions (summarised suggestions or findings, future scope of study).
  - i. Appendix (if needed).

## SUBJECT- ENGLISH

NOTE: DO THESE ASSIGNMENTS IN YOUR ENGLISH HOLIDAY H.W.NOTEBOOK/ A4 SHEETS/RULED SHEETS.

1. Collect varied invitation formats-(formal and informal) and make a collage depicting varieties of invitations.

Same to be pasted in a holiday H.W. notebook if collage is not feasible.

2. (A) Draft a job application with cover letter and complete Resume for the post of a TGT Science teacher.

(B) Make a list for Educational Qualification required for various jobs and show presentation in tabular format.

3. Prepare notes based on the chapter, Poets and Pancakes. Follow the format of note making.

## SUBJECT- HINDI

[https://kvshindi025.blogspot.com/2018/09/blog-post\\_26.html?m=1](https://kvshindi025.blogspot.com/2018/09/blog-post_26.html?m=1)

## SUBJECT-APPLIED MATHS

1. Find values of x for which  $\begin{vmatrix} 3 & x \\ x & 1 \end{vmatrix} = \begin{vmatrix} 3 & 2 \\ 4 & 1 \end{vmatrix}$

2. A be a square matrix of order  $3 \times 3$ , there  $|KA|$  is equal to

3. Evaluate  $\Delta = \begin{vmatrix} 3 & 2 & 3 \\ 2 & 2 & 3 \\ 3 & 2 & 3 \end{vmatrix}$

4. Find minors and cofactors of all the elements of the det.  $\begin{vmatrix} 1 & -2 \\ 4 & 3 \end{vmatrix}$

5. Find value of x, if  $\begin{vmatrix} 2 & 4 \\ 5 & 1 \end{vmatrix} = \begin{vmatrix} 2x & 4 \\ 6 & x \end{vmatrix}$

6. Without expanding, prove that  $\Delta = \begin{vmatrix} x+y & y+z & z+x \\ z & x & y \\ 1 & 1 & 1 \end{vmatrix} = 0$

7. If  $\begin{vmatrix} x & 2 \\ 18 & x \end{vmatrix} = \begin{vmatrix} 6 & 2 \\ 18 & 6 \end{vmatrix}$ , then x is equal to

8. Without expanding, prove that

$$\begin{vmatrix} a & a^2 & bc \\ b & b^2 & ca \\ c & c^2 & ab \end{vmatrix} = \begin{vmatrix} 1 & a^2 & a^3 \\ 1 & b^2 & b^3 \\ 1 & c^2 & c^3 \end{vmatrix}$$

9. Show that, using properties of determinants.

$$\begin{vmatrix} a^2+1 & ab & ac \\ ab & b^2+1 & bc \\ ca & cb & c^2+1 \end{vmatrix} = 1+a^2+b^2+c^2$$

OR

$$\begin{vmatrix} a & a+b & a+2b \\ a+2b & a & a+b \\ a+b & a+2b & a \end{vmatrix} = 9b^2(a+b)$$

10. Find the equation of line joining (3, 1) and (9, 3) using determinants.

11. If  $A = \begin{bmatrix} 3 & -4 \\ -1 & 2 \end{bmatrix}$ , find matrix B such that  $AB = I$

12. The value of  $5 \odot 8 \oplus 11$ , where  $\odot$  is multiplication modulo is

13. A person can row in still water at the rate of 8 km/h. If it takes him thrice as long to row upstream as to row downstream then the speed of the stream is:

14. Two athletes Vijay and Samuel finish 100 meters race in 12 secs and 16 secs respectively. By how many meters does Vijay defeat Samuel?

15. In what ratio must a grocer mix two varieties of pulses costing Rs. 15 and Rs. 20 per kg respectively so as to get a mixture worth Rs. 16.50 per kg?

16. The cost of Type I rice is Rs. 15 per kg and Type 2 rice is Rs 20 per kg. If both Type 1 and Type 2 are mixed in the ratio 2: 3, then the price per kg of the mixed variety of rice is: Rs

17. A person can swim in water with a speed of 16 km/hr in still water. If the speed of the stream is 4 km/hr, what will be the time taken by the person to go 68 km downstream?

18. In one hour, a boat goes 13 km/hr in the direction of the stream and 7 km/hr against the direction of the stream. What will be the speed of the boat in still water?

19. Find the remainder when  $(127 \times 137 \times 23 \times 50 \times 235 \times 15)$  is divided by 7

20. Find all the positive integers less than 30 forming the equivalence class of 5 for modulo 7. Solution: The smallest positive integer divisible by 7 is 7.

21. Two pipes can fill a cistern in 8 and 12 hours respectively. The pipes are opened simultaneously and it takes 12 minutes more to fill the cistern due to leakage. If the cistern is full, what will be the time taken by the leakage to empty it?

22. Verify  $(14 \times 8) \bmod 5 = (14 \bmod 5 \times 8 \bmod 5) \bmod 5$

### PROJECT FILE

PREPARE A PROJECT FILE ON PROPERTIES OF MATRICES AND DERTMINANTS

#### SUBJECT-Physical Education

1. Make a practical file on Major Game and Yoga ( Helpful in preventing Obesity , Asthma , Diabetes, Hypertension).
2. Do 5 Short type(80 to 90 words), 5 long type Questions (150 to 200 words) from Chapter 1 and 2.

#### SUBJECT-COMPUTER SCIENCE

<https://docs.google.com/document/d/1Fd8TMo6081-pUjyZpFuGbFSVi7X5hCE0/edit>