

CLASS XII  
Holiday Homework(2018-19)  
Somerville School, Vasundhara Enclave, Delhi-96

**English:**

1. From newspapers and magazines, collect examples of the following and paste them in a scrapbook:
  - a) One example each of product and service Display Advertisement.
  - b) At least six different categories of Classified Advertisement.
2. Read the novel, 'The Invisible Man'.

**Accountancy:**

1. Comprehensive project
  - a. Journal entries
  - b. Ledger
  - c. Trial balance
  - d. Trading Account
  - e. Profit & loss account
  - f. Balance sheet
  - g. Closing entries

**Business Studies:**

COMPREHENSIVE PROJECT BASED ON CBSE GUIDELINES  
TOPIC: MARKETING MANAGEMENT

Project to be made on any Product or Service with all the Marketing tools applied right from Conception to execution with all the P's of Marketing –Product, Price, Placement and Promotion.

## **Economics:**

Prepare a project based on CBSE guidelines.

Suggested topics are -

1. Production possibility curve
2. Demand/Supply and its determinants
3. Production returns to a factor
4. Cost function and cost curves
5. Monopoly or perfect competition ,or monopolistic competition .or oligopoly forms of market.
6. Government budget and its components
7. Credit creation
8. Exchange rate system
9. BOP
10. Any other relevant topic such as HDI, GST, SHG, Dis-investment policy etc.

## **N.B :**

The project report should include : Title , Index , Introduction of the theme , Elaboration, Conclusion , Credits / List of resources used / Bibliography

## **Mathematics:**

Q.1. Determine whether \* on Z defined by  $a * b = ab + 5$  is commutative or associative.

Q.2. Find the value of  $\cos\left[\cos^{-1}\left(-\frac{\sqrt{3}}{2}\right) + \frac{\pi}{6}\right]$  .

Q.3. Find the maximum value of

$$\begin{vmatrix} 1 & 1 & 1 \\ 1 & 1 + \sin\theta & 1 \\ 1 & 1 & 1 + \cos\theta \end{vmatrix}$$

Q.4. If  $(\tan^{-1} x)^2 + (\cot^{-1} x)^2 = \frac{5\pi^2}{8}$ , then find x.

Q.5. Prove that the function  $f : \mathbb{N} \rightarrow \mathbb{N}$  given by  $f(x) = x^2 + x + 1$  is one – one but not onto.

Q.6. Solve for x:  $\tan^{-1}x - \cot^{-1}x = \tan^{-1}\left(\frac{1}{\sqrt{3}}\right)$ .

Q.7. Prove that  $\begin{vmatrix} yz - x^2 & zx - y^2 & xy - z^2 \\ zx - y^2 & xy - z^2 & yz - x^2 \\ xy - z^2 & yz - x^2 & zx - y^2 \end{vmatrix}$  is divisible by  $(x + y + z)$  and

hence find the quotient .

Q.8. If  $A = \begin{bmatrix} 8 & 4 & 3 \\ 2 & 1 & 1 \\ 1 & 2 & 2 \end{bmatrix}$ , find  $A^{-1}$  . Using  $A^{-1}$  solve the system of linear equations.

$$8x + 4y + 3z = 19,$$

$$2x + y + z = 5,$$

$$x + 2y + 2z = 7.$$

Q.9. Prove the following :

$$\begin{vmatrix} \frac{a^2+b^2}{c} & c & c \\ a & \frac{b^2+c^2}{a} & a \\ b & b & \frac{c^2+a^2}{b} \end{vmatrix} = 4abc$$

Q.10. Find inverse of following matrix by using elementary transformation:

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

## **Political Science:**

**A. Read and revise the following chapters from Politics in India since independence:**

Chapter 1 Challenges of Nation Building

Chapter 2 Era of one party dominance

Chapter 3 Politics of Planned development

Chapter 4 India's external relations

Chapter 5 Challenges to and restoration of the Congress party

Chapter 6 The Crisis Of democratic Order

**B. Do Revision Worksheet** (sent through mail)

- a. Answer all the questions given in the revision worksheet.
- b. Section I to be answered in 20-50 words.
- c. Section II to be answered in 100-150 words.

**C. General Studies:** 1. Make your **General Studies Project** as discussed in the class

**D. Read the newspaper daily** especially the editorial page.

## **Applied Art:**

Q1. Describe how Rajasthani School of Miniature Paintings created a long lasting impact on Indian Art. Explain in detail with reference to the paintings in your course of study.

Q2. Describe how Pahari School of Miniature Paintings created a long lasting impact on Indian Art. Explain in detail with reference to the paintings in your course of the study.

Q3. Describe how Mughal School of Miniature Paintings created a long lasting impact on Indian Art. Explain in detail with reference to the paintings in your course of the study.

Q4. Describe how Deccan School of Miniature Paintings created a long lasting impact on Indian Art. Explain in detail with reference to the paintings in your course of the study.

Q5. Appreciate the following artwork also write about the working style and medium chosen by the artist .

- a. BaniThani.
- b. Dancers
- c. Falcon on bird rest
- d. Ragini Pat-hamsika

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