



# NORTH-EX PUBLIC SCHOOL

(SENIOR SECONDARY , AFFILITATED TO CBSE)

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## Winter Vacation Assignment 2016-17

### Class XII

#### ENGLISH

1. Read the novel “ The Invisible Man” and prepare a summary. Also mention some of its interesting events.
2. Write an article on the Role of Social Media on Our Society and Economy”. (300 words)
3. Prepare a report on the “ Problems of New Currency of India” recently introduced. Also mention its far-reaching impacts.. (200 words)

#### MATHEMATICS

- I. Find the area bounded by y axis,  $y = \cos x$  and  $y = \sin x$  when  $0 \leq x \leq \pi/2$ .
- II. Find the coordinates of the point P where the line through A(3,-4,-5) and B(2,-3,1) crosses the plane passing through three points L(2,2,1), M(3,0,1) and N(4,-1,0). Also find the ratio in which P divides the line segment AB.
- III. An urn contains 3 white and 6 red balls. 4 balls are drawn one by one with replacement from the user. Find the Probability distribution of the number of red balls drawn. Also find the mean variance of the distribution.
- IV. A manufacturer produces two products A and B. Both the products are processed on two different machines. The available capacity of first machine is 12 hours and that of second machine is 9 hours per day. Each unit of product A requires 3 hours on both machines and each unit of product B requires 2 hours on first machine and 1 hour on second machine. Each Unit of product A is sold at Rs 7 profit and that of B at a profit of Rs 4. Find the production level per day for maximum profit graphically.
- V. Show that the altitude of the right circular cone of maximum volume that can be inscribed in a sphere of radius r is  $4r/3$ . Also find maximum volume in terms of volume of the sphere.

#### BUSINESS STUDIES

- I. Under the Consumer Protection Act, every consumer has the right to be protected against goods and services which are hazardous to life and health. A ready to eat food manufacturing Company uses lead in excess of the prescribed limit in its products which would lead to severe health issues for the consumers.
  - a) Identify and explain the consumer right violation by the company.
  - b) Highlight any two values not observed by the company.
- II. Explain any three points of importance/need for consumer protection from the point of view of a consumer.

III. XYZ Courier Company was engaged on delivering packets and letter to the customer in India. The Company started receiving complaints about delayed delivery or non-delivery of courier. Therefore, to check this it is decided to introduce a tracking system for every consignment. Henceforth, every courier was allotted a special number through which the customer could track the exact duration of the consignment and when it would reach its destination on the company's website. In addition to ensuring timely delivery through implementing this system, the company was also able to identify location with high potential. The Company decided to concentrate in these high revenue generating areas by improving its network.

a) Identify the function of management and what kind of relationship exists between these functions?

IV. Sunshine Shampoo Ltd. is offering wide range of shampoos to its customer. These are categorized on the basis of quality of hair. The range includes shampoos for dry, oily, damaged and normal hair.

a) Identify element of marketing mix and the type of decision taken under it.

b) Identify the function performed by it in the given case.

## ECONOMICS

I. What do you understand by the term 'normal resident' of a country? Explain with the help of transactions of normal resident of a country.

II. How will you treat the following while estimating domestic product of India?

a) Rent received by a resident Indian from his property in Singapore.

b) Salaries to Indians working in Japanese Embassy in India.

c) Profits earned by a branch of an American Bank in India.

d) Salaries paid to Koreans working in Indian Embassy in Korea.

III. Calculate Gross National Product at Market Price and Personal Disposable Income from the following data:

SNO	PARTICULARS	IN CRORES(RS)
1	Subsidy	20
2	NFIA	60
3	Depreciation	50
4	Personal Tax	110
5	Retained Earnings	40
6	Dividend	20
7	Indirect Tax	100
8	Corporation Tax	90
9	NNDI	1000
10	National Debt Interest	30
11	Net Current Transfer from Abroad	20
12	Current Transfer from Govt.	50
13	Misscellaneous Receipts of the Govt. Administrative Departments	30
14	Private Income	700
15	Private final Consumption expenditure	380

IV. Explain the concept of deflationary Gap. Explain the role of ' Repo Rate' in reducing this gap.

V. In an economy the equilibrium level of Income is Rs 12000 crores. The Ratio of Marginal propensity to consume(MPC) and Marginal propensity to save (MPS) is 3:1. Calculate the additional investment needed to reach a new equilibrium level of income of Rs 20,000 crores.

VI. Complete the following table:

<b>INCOME(in Rs)</b>	<b>SAVING(in Rs)</b>	<b>Marginal Propensity to Consume</b>
0	-20	
50	-10	
100	0	
150	30	
200	60	

## **ACCOUNTS**

Prepare Accounts Project file and Paste data and pictures ( Take help of newspapers and net )

## XII

Sub:- Hindi

1. दैनिक जीवन में होने वाली घटनाओं पर आधारित पाँच फीचर लिखिए।
2. 'जूझ' शीर्षक के आचल्य पर विचार करते हुए यह स्पष्ट किजिए कि क्या यह शीर्षक कथानायक की किसी केंद्रीय चार्ित्रिक विशेषता को उजागर करता है?
3. क्या पार्शाचात्य संस्कृति के प्रभाव को सिलकर वैडिगा कहानी की मूल संवेदना कहा जा सकता है? तर्क सहित उत्तर दिजिए।
4. पुरातत्व के किन चिह्नों के आधार पर आप यह कह सकते हैं कि सिंधु सभ्यता ताकत से शासित होने की अपेक्षा समझ से अनुशासित सभ्यता थी।
5. संपूर्ण पाठ्यक्रम याद किजिए।