

NORTH-EX PUBLIC SCHOOL
(Senior Secondary, Affiliated To CBSE)
School Block, Jain Nagar, Sector-38, Rohini, Delhi – 81
WINTER VACATION HOMEWORK
CLASS-XI B

ACCOUNTS

1. What is bills of exchange ?
2. What are the transactions for closing of accounts ?
3. What is final accounts ?
4. What is single entry system ?
5. Do 1 illustration from each chapter ?

BUSINESS STUDIES

1. What is formation of a company ?
2. What is small business ?
3. What is business? Factors affecting choice of business ?
4. Explain all sources of business finance ?
5. Give 1 example of all forms of business ?

MATHEMATICS

1. Write the anti derivative of $\sin^2 x \cos^2 x$?
2. Give two examples of an equivalence relation and explain why its an equivalence relation.
3. Find the rate of change of area of a circle when radius is 5 cm ?
4. Make a list of all the properties of determinants.
5. Make a list of all the properties of definite integrals.

ECONOMICS

1. Explain producer's equilibrium ?
2. Describe all the methods of rank correlations?
3. Explain law of variable proportions ?
4. Explain three causes behind increasing returns ?
5. Explain the relationship between AC and MC?

PHYSICAL EDUCATION

1. Write the importance of friction in sports.
2. Write the properties of muscle.
3. What do you mean by a good health?
4. Write the characteristics of a good athlete.
5. Why is warm up so important before any sporting activity?

ENGLISH

1. "The immune system works best when you are sleeping". Taking tips from the notes given below, write an article in about 100-120 words on the effects of sleep disorder on our immune system. You are Aditi / Aditya.
Leads to an array of health
7 to 8 hours of sleep a day
Natural killer cells generate while we sleep
Consistency strengthen immune system
2. You are a press reporter. You have interviewed passengers of a hijacked plane to know their experience. Sum up their experience in 150 words as a report for a newspaper.
3. You have to deliver a speech in the morning assembly on the topic 'The increasing rate of crime in today's society'. Write the speech in about 150-200 words.
4. Write an article for your school magazine justifying the need of education for girls in the country for national development.

INFORMATION PRACTICES

1. What measures would you take to avoid:
a) Virus attack b) Spam
2. What do you understand by Phishing?
3. Define Data Encryption.
4. Write SQL commands for the following on the basis of the given table teacher:

No.	Name	Age	Department	Date Of Joining	Salary
1	Joseph	34	Computer	10/01/97	20000
2	Sahil	31	History	24/03/98	22000
3	Sandeep	32	Maths	12/12/96	30000
4	Rakesh	35	History	01/07/99	40000
5	Sulekha	44	Computer	25/02/97	25000

- a) To show all information about the teacher of History department.
 - b) To list the names of female teachers who are in computer department.
 - c) To list names of all teachers with their joining in ascending order.
5. a) What is the use of encoding schemes?
b) What is code space? How is it related to code point?