

NORTH-EX PUBLIC SCHOOL, JAIN NAGAR
WINTER HOLIDAYS HOMEWORK
CLASS-XII-B

ENGLISH

1. Why was Bama first amused at the scene of the old man carrying a food packet by its string without touching it? Why was she filled with anger, dismay and revolt later.
2. Sophie's dreams and disappointment were all in her mind. Elaborate.
3. What is theme of the novel, 'The Invisible Man'?
4. Griffin talks casually about attacking people and stealing from his father. He feels that all this is for the greater good, the betterment of science. Justify.
5. Who is Griffin and how does he become the Invisible Man?
6. How was Griffin finally caught?

ACCOUNTS

1. Explain partnership.
2. Explain the adjustment in admission.
3. Explain the adjustment in retirement.
4. What do you mean by dissolution?
5. Explain the type of ratios.

MATHS

1. Suppose a girl throws a die. If she gets 1 or 2, she tosses a coin three times and notes the number of tails. If she gets 3, 4, 5 or 6, she tosses a coin once and notes whether a 'head' or 'tail' is obtained. If she obtained exactly one 'tail', what is the probability that she threw 3, 4, 5 or 6 with the die?
2. An open tank with a square base and vertical sides is to be constructed from a metal sheet so as to hold a given quantity of water. Show that the cost of material will be least when depth of the tank is half of its width.
3. Two numbers are selected at random (without replacement) from the first five positive integers. Let X denote the larger of the two numbers obtained. Find the mean and variance of X.
4. Using integration, find the area of the region in the first quadrant enclosed by the x-axis, the line $y = x$ and the circle $x^2 + y^2 = 32$.
5. A factory manufactures two types of screws A and B, each type requiring the use of two machines, an automatic and a hand-operated. It takes 4 minutes on the automatic and 6 minutes on the hand-operated machines to manufacture a packet of screws 'A' while it takes 6 minutes on the automatic and 3 minutes on the hand-operated machine to manufacture a packet of screws 'B'. Each machine is available for at most 4 hours on any day. The manufacturer can sell a packet of screws 'A' at a profit of 70 paise and screws 'B' at a profit of Rs 1. Assuming that he can sell all the screws he manufactures, how many packets of each type should the factory owner produce in a day in order to maximize his profit? Formulate the above LPP and solve it graphically and find the maximum profit.

BST

1. What do you mean by planning?
2. What do you mean by organizing?
3. What do you mean by staffing?
4. What do you mean by controlling?
5. What do you mean by directing?

ECONOMICS

1. Explain four exceptions of law of demand.
2. Explain six characteristics of perfect competition.
3. Explain circular flow of income in two sector economy.

4. Distinguish between autonomous items in BOP and accommodating items in BOP.
5. Explain three quantitative measures to control inflation in the economy.
6. Explain the impact of Depreciation of domestic currency on imports .

IP

- Q1. Differentiate between DELETE and DROP command.
- Q2. Differentiate between DDL and DML commands.
- Q3. Explain Cartesian product of two relations
- Q4. Differentiate between primary key and foreign key.
- Q5. Submit a chart on various aggregate functions of MySQL.

PHYSICAL EDUCATION

- Q.1- How is friction not required in various games and sports. Explain with examples.
- Q.2- Height of projection influences projectile movement. Explain.
- Q.3- How does air resistance influences projectile movement?
- Q.4- Movement is inherent part of all sports. Explain.
- Q.5- Describe major muscles involved in running, jumping and throwing.
- Q.6- Learn and write Question and answers of Chapter- 1 to 12.