

KENDRIYA VIDYALAYA MORENA

HOLIDAYS HOMEWORK: SUMMER VACATIONS (2018 – 19)

Senior Secondary Classes: XII (Science & Commerce)

Class XII: English

1. Write an Article in not more than (150-200) words on the topic given below:

- a) Possible steps to deal with the problem of slum in our cities
- b) Saving every drop of water

2. You are Mukesh you have been reading the news items on Nithari killings .write a Speech in about 150-200 words to be given in the morning assembly stressing the need of keeping a close vigil on the Anti-social elements of the locality and taking care of young children of the area so that they don't prey to bad characters

3 .Write a letter to the Editor of a national daily to highlight the problem of the students of class xii regarding their studies.

4. Read the Novel "Invisible man" and describe about your adventures if you would have been an invisible man in place of Griffin.

5. You want to sell your flat in Ashok Vihar .write out an advertisement giving necessary details in about 50 words. (Collect any 4 ADVT from newspaper)

Class XII: Hindi

Class XII: Maths

1. Write down all the important formulae used in lesson Relation and functions, Inverse trigonometric functions, Matrices and Determinants.

2. Solve 10 important questions from each three lesson (above said) which are asked in Board Examination of last 5 years.

Class XII: Physics

1. Solve all the numerical of chapter I,II, and III

2. All the derivations of chapter I & II

- Gauss's law.
- Application of Gauss's law.
- Electric field due to an electric dipole.
- Electric potential due to an electric dipole.
- Effect of dielectric on capacitance.

Class XII: Chemistry

Ch.1- solid state

1. Learn question answers of the chapter from NCERT part-1 textbook.
2. Solve numerical from NCERT textbook.

Ch.2- solution

1. Learn question answers of the chapter from NCERT part-1 textbook.
2. Solve numerical from NCERT textbook.

Ch.3- electrochemistry

1. Learn question answers of the chapter from NCERT part-1 textbook.
2. Solve numerical from NCERT textbook.
3. Draw a labelled diagram of galvanic cell (voltaic cell)

Ch.4- chemical kinetics

1. Write and learn question answers of the chapter from NCERT part-1 textbook.
2. Solve numerical from NCERT textbook.
3. Do derivations for zero order reaction, first order reaction, half-life period of reaction (for zero and first order of reaction)?

Ch.2- components of food

1. Learn question answers of the chapter from NCERT part-1 textbook.
2. Learn extra question answers of this chapter from your science notebook.
3. Drawing project- draw a table to mention role of each nutrient of food.

Class XII: Biology

1. Prepare a project on
Drug addiction/Gene therapy (min 20 pages)
2. Write a detailed note on
 - a. Mendelian disorders.
 - b. Chromosomal disorder
 - c. Double helix structure of DNA
 - d. DNA versus RNA – as genetic material
 - e. Genetic code
 - f. Transcription
 - g. Translation
3. Draw well labelled diagram of
 - a. Double stranded polynucleotide chain
 - b. Nucleosome
 - c. Hershey chase experiment
 - d. Meselson and stahl's experiment
 - e. Replicating fork of DNA
 - f. Lac operation
 - g. t RNA – the adaptor molecule
4. Learn chapter 1-5.
5. Do exercise Q/A of chapter 6.

Class XII: Computer Science

1. Revise all the concepts learnt in the Unit 1: Review C++ Covered in Class XI.
2. Solve the exercise questions from above all the chapters from any Reference Book.
3. Solve CBSE Previous five years Question Papers from these chapters.

Class XII: Economics

1. What is economics all about?
2. What do you mean by economic problem? Why does an economic problem arise? Explain.
3. Explain the problem of 'what to produce' with the help of an example.
4. Explain the problem of 'how to produce' with the help of an example.
5. Define opportunity cost, marginal opportunity cost and economy.
6. Define production possibility curve (PPC) and explain its main characteristics.
7. Define the law of Diminishing Marginal Utility and 'Principle of Equi-Marginal Utility'.
8. Define consumer equilibrium. Explain one (single) commodity model of consumer equilibrium through utility analysis.
9. What do you mean by marginal rate of substitution (MRS)?
10. What do you mean by Indifference curve? State its main Features.
11. Define Budget line. Give the formula for calculating the slope of the budget line. Briefly explain the factors that cause changes in the Budget line.
12. Explain the concept of consumer equilibrium with help of indifference curve approach.
13. What do you mean by demand? Explain the determinants of demand for a commodity.
14. What do you mean by increase in demand? Name any five factors that shift the demand curve to the right.
15. Explain the law of demand with the help of a demand schedule and diagram.
16. How is demand of a commodity affected by change in the price of related goods? Explain with the help of diagram.
17. Distinguish between
 - a) Change in demand and change in quantity demanded
 - b) Contraction of demand and decrease in demand.
18. Define price elasticity of demand. Briefly explain the factors affecting price elasticity of demand.

SOME NUMERICAL QUESTIONS:-

1. When price of a commodity falls by Re. 1 per unit, its quantity demanded rises by 3 units. Its price elasticity of demand is (-) 2. Calculate its quantity demanded if the price before the change was ₹ 10 per unit.
2. When price of a good is ₹ 13 per unit, the consumer buys 11 units of that good. When price rises to ₹15 per unit, the consumer continues to buy 11 units. Calculate price elasticity of demand.
3. A 5 percent fall in price of a good leads to 10 percent rise in its demand. A consumer buys 40 units of the good at a price of ₹ 10per unit. How many units will the consumer buy at a price of ₹ 12 per unit? Calculate.
4. Due to a 10 percent fall in the price of a commodity, its quantity demanded rises from 400 unit's to450 units. Calculate its price elasticity of demand.
5. A 5 percent fall in the price of a good raises its demand from 300 units to 318 units. Calculate its price elasticity of demand.
6. When the price of a commodity falls by 20 percent, its demand rises from 400 units to 500 units. Calculate its price elasticity of demand.
7. Price elasticity of demand of a good is -0.75. Calculate the percentage fall in its price that will result in 15 percent rise in its demand.
8. What will be the effect of 10 percent rise in price of a good on its demand if price elasticity of demand is (a) Zero, (b) -1, (c) -2.

Class XII: Business Studies

Q1. Rajat is working as a Regional Manager in Tifco Ltd. Name the level at which he is working. State any four functions he will perform as the Regional Manager in this company.

Q2. Vaibhav Garments Ltd/s target is to produce 10,000 shirts per month at a cost of Rs150 per shirt. The production manager could achieve this target at the cost of Rs160 per shirt. Do you think the production manager is effective? Give reasons for your answer.

Q3. Telco Ltd. manufactures files and folders from old clothes to discourage the use of plastic files and folders. For this, they employ people from nearby villages where very less job opportunities are available. An employee, Harish, designed a plan for cost reduction but it was not welcomed by the production manager. Another employee gave some suggestions for improvements in design, but it also was not appreciated by the production manager.

1. State the principle of management that is violated in the above paragraph.
2. Identify any two values that the company wants to communicate to the society.

Q4. Neeraj is selected for the post of software developer in an IT Company. On the first day of his joining Mehul, his project manager tells Neeraj that during the course of his work he will come across many such opportunities which may tempt him to misuse his powers for individual or family's benefit at the cost of larger general interest of the company. In such situations, he should rather exhibit exemplary behaviour as it will raise his stature in the eyes of the company. Also, for interacting with anyone in the company on official matters, he should adopt the formal chain of authority and communication.

In context of the above case:

1. Identify and explain the various principles of management that Mehul is advising Neeraj to follow while doing his job.
2. List any two values that Mehul wants to communicate to Neeraj.

Q5. What is Business Environment. State its Features, Importance and Dimension.

Q6. Explain Economic Reforms in 1990 and its impact on business Environment in India. State any 3 Managerial Responses to counter these changes.

Q7. What do you mean by planning. Explain Planning process in brief.

Q8. State any three features, importance and Limitation of planning.

Q9. Explain different types of Plan.

Class XII: Accountancy

Q1. At the time of change in profit sharing ratio among the existing partners, where will you record an unrecorded liability?

Q2. In case of admission of a new partner, goodwill was already appearing in the books of the firm. Give journal entry for its treatment

Q3. On the basis of the following information, calculate the amount to be debited to Stationery account in the Income and Expenditure for the year ended 31.03.2011:

| | | | |
|---|--------|---------------------------------------|-------|
| Stock of Stationery on 1.04.10 | 3,000 | Creditors for stationery on 1.04.2010 | 2,000 |
| Amount paid for Stationery during 2010-11 | 10,800 | Stock of stationery on 31.03.2011 | 500 |
| Creditors for Stationery on 31.03.2011 | 1,300 | | |

Q4. Give the answer to the following:

- (1) P and Q are partners sharing profits and losses in the ratio of 3:2. On 1st April 2009 their capital balances were Rs.50, 000 and 40,000 respectively. On 1st July 2009 P brought Rs.10, 000 as his additional capital whereas Q brought Rs.20, 000 as additional capital on 1st October 2009. Interest on capital was provided @ 5% p.a. Calculate the interest on capital of P and Q on 31st March 2010.
- (2) A and B are partners sharing profits and losses in the ratio of 2:1. A withdraws Rs.1500 at the beginning of each month and B withdrew Rs. 2000 at the end of each month for 12 months. Interest on drawings was charged @ 6% p.a. Calculate the interest on drawings of A and B for the year ended 31st December 2009.

Q5.chapter3(Change in P.S.R):-Q4,Q7,Q9,Q11,Q14,Q17,Q18,Q21,Q23,Q27,Q28,Q31,Q32 of Reference book

Class XII: Informatics Practices

1. Revise all the concepts learnt in the Unit 3 : Relational Database Management System from the following chapters :-
 - Database Management System
 - Introduction to MySQL
 - Functions in MySQL
2. Solve the exercise questions from above all the chapters from CBSE XII IP Books.
3. Solve CBSE Previous five years Question Papers from these chapters.