पीएम श्री केंद्रीय विद्यालय क्र. 2, भोपाल

शीतकालीन अवकाश गृहकार्य- 2023

विषय हिंदी (आधार)

कक्षा- ग्यारहवीं

1. **रजनी** पाठ से 10 बहुविकल्पीय प्रश्न और उनके उत्तर लिखिए।

2. **जामुन का पेड़** पाठ से 10 बहुविकल्पीय प्रश्न और उनके उत्तर लिखिए।

3. **दुष्यंत कुमार की ग़ज़ल** से 10 बहुविकल्पीय प्रश्न और उनके उत्तर लिखिए।

4. **कोश एक परिचय** पाठ से 10 बहुविकल्पीय प्रश्न और उनके उत्तर लिखिए।

5. निम्नलिखित विषयों पर रचनात्मक लेख लिखिए।

   (क) युवा पीढ़ी में ऑनलाइन गेमिंग की बढ़ती लत।

   (ख) समय का सदुपयोग सफलता की सीढ़ी है।

नोट: यह कार्य नियमित गृहकार्य अभ्यासपुस्तिका (कॉपी) में ही करें।

Holiday Homework

Subject: English

Class - XI

1. Read the newspaper daily to enrich your vocabulary.
2. Read some story books/ novels to hone your creative skills. Write a book review on any one book of your choice.
3. Complete your CW and HW in all aspects.
4. Prepare a 4 minutes speech on any topic of your choice for the Speaking skill test.
5. Revise thoroughly all the topics from literature section that will be included for your PT- 2 exam. (Literature: Childhood, Father to Son, The Adventure, Silk Road & Birth, The Tale of Melon City)

HOLIDAY HOME WORK FOR WINTER BREAK

CLASS 11

1. To verify for two sets A and B, n(AxB) =pq and total number of relations from A to B is 2pq where n(A)=p and n(B) = q .

2 To represent set theoretic operations using venn diagram.

3. To identify a relations and a functions.

4. To plot the graph of sinx , sin2x, 2sinx and sinx/2, using same

   co-ordinate axes.

5. To find the number of ways in which three cards can be selected from given five cards.

6. To construct a parabola .

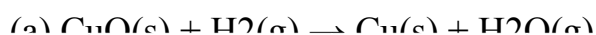7. To construct an ellipse when two fixed points i.e. foci are given.
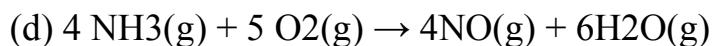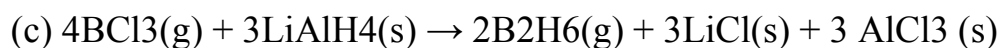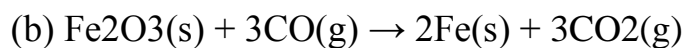
PMSHRI KV NO2 BHOPAL

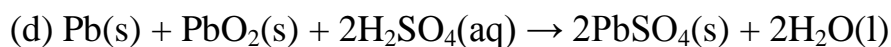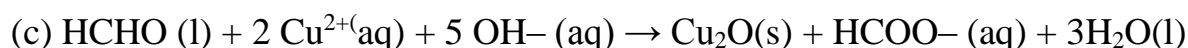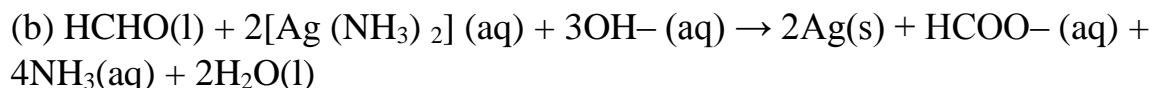**WINTER BREAK HOMEWORK 2023-24**

CLASS – XI

REDOX REACTION

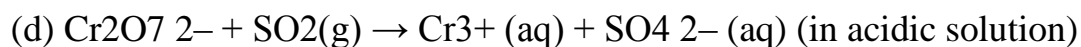1. Justify that the following reactions are redox reactions:

(a) CuO(s) + H2(g) → Cu(s) + H2O(g)

(b) $Fe_2O_3(s) + 3CO(g) \rightarrow 2Fe(s) + 3CO_2(g)$

(c) $4BCl_3(g) + 3LiAlH_4(s) \rightarrow 2B_2H_6(g) + 3LiCl(s) + 3\ AlCl_3\ (s)$

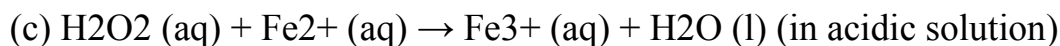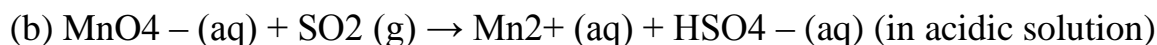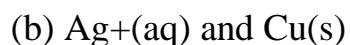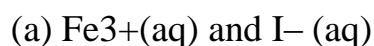(d) $4\ NH_3(g) + 5\ O_2(g) \rightarrow 4NO(g) + 6H_2O(g)$

2. Identify the substance oxidised reduced, oxidising agent and reducing agent for each of the following reactions:

(a) $2AgBr\ (s) + C_6H_6O_2(aq) \rightarrow 2Ag(s) + 2HBr\ (aq) + C_6H_4O_2(aq)$

(b) $HCHO(l) + 2[Ag\ (NH_3)_2]\ (aq) + 3OH^-\ (aq) \rightarrow 2Ag(s) + HCOO^-\ (aq) + 4NH_3(aq) + 2H_2O(l)$

(c) $HCHO\ (l) + 2\ Cu^{2+}(aq) + 5\ OH^-\ (aq) \rightarrow Cu_2O(s) + HCOO^-\ (aq) + 3H_2O(l)$

(d) $Pb(s) + PbO_2(s) + 2H_2SO_4(aq) \rightarrow 2PbSO_4(s) + 2H_2O(l)$

3. Balance the following redox reactions :

(a) $MnO_4 - (aq) + I^-\ (aq) \rightarrow MnO_2\ (s) + I_2(s)$ (in basic medium)

(b) $MnO_4 - (aq) + SO_2\ (g) \rightarrow Mn_2+ (aq) + HSO_4 - (aq)$ (in acidic solution)

(c) $H_2O_2\ (aq) + Fe_2+ (aq) \rightarrow Fe_3+ (aq) + H_2O\ (l)$ (in acidic solution)

(d) $Cr_2O_7\ 2- + SO_2(g) \rightarrow Cr_3+ (aq) + SO_4\ 2- (aq)$ (in acidic solution)

4.Using the standard electrode potentials given in the Table 8.1, predict if the reaction between the following is feasible:

(a) $Fe_3+(aq)$ and $I^-\ (aq)$

(b) $Ag^+(aq)$ and $Cu(s)$

5.What do you mean by disproportionation reaction? Give two examples.

Which of the following species, do not show disproportionation reaction and why ?

ClO^- , $ClO_2 -$, $ClO_3 -$ and ClO_4^-

II. Some Basic Concepts of Organic Chemistry

1.Write bond line formulas for : Isopropyl alcohol, 2,3-Dimethylbutanal, Heptan-4-one

2. Write the structural formula of:

(a) o-Ethylanisole,   (b) p-Nitroaniline

(c) 2,3-Dibromo-1-phenylpentane,   (d) 4-Ethyl-1-fluoro-2-nitrobenzene.

3. Write the chain isomers of following compound

(A) n-Hexane   (B)n- Octane

4. Write possible isomerism in the followings:

        $C_5H_{10}\,O$ & $C_5H_{12}\,O$

5. what are the conditions for Geometrical isomerism.

6. Can alkanes show geometrical isomerism. Justify your answer

7. Which of the following compound can form a metamer, write the formula of the metamer which can be formed.

CH3O CH3, C2H5OH, C2H5 CO C3H7 and C2H5CHO

8. Give IUPAC names to the following compound-

a) CH2OH-CHOH-CH2OH

B) CHO-CHO

C) (CH3)2 CHCH2 COOH

D) COOH-COOH

E) CH3CO CH2 CO CH3

9. Write all the possible isomers of C4H8 (structural and stereo)

10. What is optical isomerism. Which is the essential condition for a compound to show optical isomerism.

                  SEEMA TAMRKAR & JAGRATI SHARMA

                        (PGT CHEMISTRY)

                    Holiday Homework

Class 11   subject. Economics

1: explain producer equilibrium with the help of an imaginary example.

2:state the low of supply.

3.diffebces between extention in supply and increase in supply.

4:write any four factors affecting elasticity of supply.

5: solve two questions on following topics.

A scatter diagram method

B Karl Pearson Coefficient

C.spearman's correlation

KENDRIYA VIDYALAYA NO. 2 BHOPAL

WINTER BREAK HOME WORK

CLASS XI

1. The stretching of a coil spring is determined by its shear modulus. Why?
2. The spherical ball contracts in volume by 0.1% when subjected to a uniform normal pressure of 100 atmosphere calculate the bulk modulus of material of ball?
3. State Hooke's law?
4. Define Poisson''s ratio? What is its unit?
5. Define modulus of elasticity and write its various types
6. Which is more elastic rubber or steel? Explain.
7. Define viscosity?
8. What is the significance of Reynolds's Number?
9. Water is coming out of a hole made in the wall of tank filled with fresh water. If the size of the hole is increased, will the velocity of efflux change?
10. State and prove Bernaulli's principal.
11. What is magnus effect?
12. Derive the expression for excess pressure inside a liquid drop.
13. What do you mean anomalous behaviour of water? How it is useful to marine life?
14. Explain formation of sea breeze .
15. What are the different mode of transfer of heat?

KENDRIYA VIDYALAYA NO. 2 BHOPAL

TERM2 HOLIDAY HOMEWORK

CLASS- 11 (A,B,C)

SUBJECT- INFORMATICS PRACTICES

1. OBJECTIVE TYPE QUESTIONS QUESTIONS OF CHAPTER NO. 9 &
   10 (Database Concept, Sql

2. NCERT QUESTIONS OF SAME CHAPTER
3. TYPE A,TYPE B QUESTIONS OF SUMITA ARORA
4. LEARN ALL THE DDL & DML COMMANDS

SHIKHA CHOURASIA

PGT CS

Holiday Homework (winter break)

Class XI Accountancy

1.Practical Questions on Rectification of Errors 1to 10(D.K.Goel/T.S.Grewal)

2.Rectificatiin of Errors-15 M.C.Q.

3. Financial Statement(without Adjustments)- 15 M.C.Q.

4.Accountancy Project- in seperate File (Any One)

1. Collection of source documents, preparation of vouchers, recording of transactions with the help of vouchers.

2. Preparation of Bank Reconciliation Statement with the given cash book and the pass book with twenty to
10 to 15 transactions.

3. Comprehensive project of any sole proprietorship business. This may state with journal entries and their

ledgering, preparation of Trial balance.

Subject: Business Studies (054)
CLASS XI

Write the MCQs in the Notebook.

1. Learn and Write MCQS (15 each topics) -
(Poonam Gandhi/Sandeep Garg) Assertion and Reasoning,Case Study,True and False.

        A) Small Business and Enterprises
        B) Internal Trade

2. Very Short Question and Long type questions and Answer
    a. Case Study (any 2)
    b. Write brief NOTES ON:-
      1.Entrepreneurship Development
     (ED)
      2. Intellectual Property Rights
      3. Start up India scheme
    c. Small scale enterprise as defined by MSMED Act 2006 (Micro, Small and Medium Enterprise Development Act)
    d. Discuss the role of small business in India .
    e. State the meaning of Internal Trade.
    f. Types of Internal Trade.
    g. Services by wholesalers to Manufacturers and retailers
    h. Services by retailers to wholesalers and customer
    i. Types of retail-trade-Itinerant
    j.   Departmental stores - meaning , features advantages and disadvantages, small scale fixed shops retailers
    k. Explain the features of mail order business
    l. GST (Goods and Services Tax): Meaning and key-features

PROJECT WORK

- Students are instructed to complete their project work as per the CBSE Guidelines.
- Students must take any one topic during the academic session of Class XI.

l. Project One: Field Visit

1. Visit to a Handicraft unit.

2. Visit to an Industry.

3. Visit to a Wholesale market (vegetables, fruits, flowers, grains, garments, etc.)

4. Visit to a Departmental store.

5. Visit to a Mall.

1. Visit to a Handicraft Unit The purpose of visiting a Handicraft unit is to understand the nature and scope of its business, stakeholders involved and other aspects as outlined below

a) The raw material and the processes used in the business: People /parties/firms from which they obtain their raw material.

b) The market, the buyers, the middlemen, and the areas covered.

c) The countries to which exports are made.

d) Mode of payment to workers, suppliers etc.

e) Working conditions. f) Modernization of the process over a period of time.

g) Facilities, security and training for the staff and workers.

h) Subsidies available/ availed.

i) Any other aspect that the teachers deem fit

2. Visit to an Industry. The students are required to observe the following:

a) Nature of the business organisation.

b) Determinants for location of business unit.

c) Form of business enterprise: Sole Proprietorship, Partnership, Undivided Hindu Family, Joint Stock Company (a Multinational Company).

d) Different stages of production/process

e) Auxiliaries involved in the process.

f) Workers employed, method of wage payment, training programmes and facilities available.

g) Social responsibilities discharged towards workers, investors, society, environment and government.

h) Levels of management. i) Code of conduct for employers and employees.

j) Capital structure employed- borrowed v/s owned.

k) Quality control, recycling of defective goods.

l) Subsidies available/availed.

m) Safety Measures employed.

n) Working conditions for labour in observation of Labour Laws.

o) Storage of raw material and finished goods.

p) Transport management for employees, raw material and finished goods.

q) Functioning of various departments and coordination among them (Production, Human Resource, Finance and Marketing)

r) Waste Management.

s) Any other observation.

3. Visit to a wholesale market: vegetables/fruits/flowers/grains/garments etc. The students are required to observe the following:) Sources of merchandise.

b) Local market practices.

c) Any linked up businesses like transporters, packagers, money lenders, agents, etc.

d) Nature of the goods dealt in.

e) Types of buyers and sellers.

f) Mode of the goods dispersed, minimum quantity sold, types of packaging employed.

g) Factors determining the price fluctuations.

h) Seasonal factors (if any) affecting the business.

i) Weekly/ monthly non-working days

j) Strikes, if any- causes thereof.

k) Mode of payments.

l) Wastage and disposal of dead stock.

m) Nature of price fluctuations, reason thereof.

n) Warehousing facilities available\availed.

4. Visit to a Departmental store The students are required to observe the following:

a) Different departments and their lay out.

b) Nature of products offered for sale.

c) Display of fresh arrivals.

d) Promotional campaigns.

e) Spaces and advertisements.

f) Assistance by Sales Personnel.

g) Billing counter at store – Cash, Credit Card/ Debit Card, swipe facility. Added attractions and facilities at the counter.

h) Additional facilities offered to customers

5. Visit to a Mall. The students are required to observe the following:

a) Number of floors, shops occupied and unoccupied.

b) Nature of shops, their ownership status

c) Nature of goods dealt in: local brands, international brands,

d) Service business shops- Spas, gym, saloons etc.

e) Rented spaces, owned spaces, f)Different
 types of promotional schemes.

g) Most visited shops.

h) Special attractions of the Mall- Food court, Gaming zone or Cinema etc

. i) Innovative facilities

j) Parking facilities.

II. Project Two: Case Study on a Product

a) Take a product having seasonal growth and regular demand with which students canrelate.
For example,

b) Apples from Himachal Pradesh, Kashmir.

c) Oranges from Nagpur

d) Mangoes from Maharashtra/U.P./Bihar/Andhra Pradesh etc.

e) Strawberries from Panchgani,

f) Aloe vera from Rajasthan,

g) Walnuts/almonds from Kashmir,

h) Jackfruit from South,

i) Guavas from Allahabad,

Students may develop a Case Study on the following lines:

(i) Research for change in price of the product. For example, apples in Himachal Pradesh during plucking and non plucking season.

(ii) Effect on prices in the absence of an effective transport system.

(iii) Effect on prices in the absence of suitable warehouse facilities.

(iv) Duties performed by the warehouses.

(v) Demand and supply situation of the product during harvesting season, prices near the place of origin and away.

Project Three: Aids to Trade Taking any one AID TO TRADE, for example Insurance and gathering information on following aspects

1. History of Insurance Lloyd's contribution.
 2. Development of regulatory Mechanism.
3. Insurance Companies in India
4. Principles of Insurance.
5. Types of Insurance. Importance of insurance to the businessmen.
6. Benefits of crop, orchards, animal and poultry insurance to the farmers.
7. Terminologies used (premium, face value, market value, maturity value, surrender value) and their meanings.
 8. Anecdotes and interesting cases of insurance. Reference of films depicting people committing fraudulent acts with insurance companies.
9. Careers in Insurance.
Teachers develop such aspects for other aids to trade.

 IV. Project Four: Import /Export Procedure Any one from the following
1. Import /Export procedure The students should identify a product of their city/country which is imported /exported. They are required to find the details of the actual import/export procedure. They may take help from the Chambers of Commerce, Banker, existing Importers/Exporters, etc. The specimens of documents collected should be pasted in the Project file with a brief description of each. They may also visit railway godowns/dockyards/ transport agencies and may collect pictures of the same.

.