NORTH-EX PUBLIC SCHOOL
(SENIOR SECONDARY, AFFILIATED TO CBSE)
SCHOOL BLOCK, JAIN NAGAR, SECTOR-38, ROHINI, DELHI-81
SUMMER HOLIDAY HOMEWORK
CLASS XI (COMMERCE)

ENGLISH
1. Design a poster highlighting the evils of the dowry system.
2. Design an attractive poster for a dog show that your 'Kennel Club' is going to organise.
3. Prepare a thought provoking poster on the topic of Child Abuse.
4. We cannot imagine our life without a mobile phone, TV sets and other modern gadgets. Write an article on 'Role of Modern Gadgets' in 150 to 200 words.
5. You are Rahul resident of Kirti Nagar. Nowadays you are facing a lot of problems due to the frequent breakdown of the electricity. Write a letter to the editor of a newspaper to publish your complain for the same.
6. Media has a strong hold on society. Write a speech in 150 to 200 words on 'How media influences public opinion' to be delivered in the school assembly.
7. Write the summary of the poem, 'A Photograph' in the test register.
8. Write the summary of all the chapters done till now in the test register.
9. Learn and revise syllabus of PT-1.
10. Prepare ASL topic. (You may choose your own topic)

MATHEMATICS
1. Draw the modulus function graph. Write its domain and range.

2. let f be the function defined by $f: x \rightarrow 5x^2 + 2, xER$
   i. Find f(3)+f(2)
   ii. Find x such that f(x)=22
   iii. Write the domain for the given function.

3. write the set $\left\{\frac{1}{3}, \frac{3}{5}, \frac{5}{7}, \frac{7}{9}, \frac{9}{11}, \frac{11}{13}\right\}$ in set builder form.

4.. In a class of 50 students, 30 students like Hindi, 25 like science, 16 like both. Find the no. of students who like
   i. Either Hindi or science
   ii. Neither Hindi nor science

5.. If U={1,2,3,4,5,6,7,8,9} A={2,4,6,8} B={2,3,5,7}, verify that i) (A ∪ B)'= A'∩ B'
   ii) $(A \cap B)' = A' \cup B'$

6. Let A={1,2} , B={1,2,3,4} , C={5,6} , D={5,6,7,8} verify that A×(B∩ $C) = (A \times B) \cap (A \times C)$.

7. If A and B are two given sets , then represent the set using venn diagram
   i. (A-B)'
   ii. (A ∩ B)'

8. If acosθ + bsin θ = m and asin θ -bcos θ= n , then show that $a^2+b^2 = m^2 +n^2$.

9. Find sin $\frac{x}{2}$, cos$\frac{x}{2}$ and tan $\frac{x}{2}$ in the tanx = $-\frac{4}{3}$, x lies in quadrant II

10. Prove that : 1 + cos2x + cos4x + cos6x = 4cosx cos2x cos3x.

11. Prove that $\frac{\sin A+\sin 3A+\sin 5A+\sin 7A}{(\cos A+\cos 3A)+\cos 5A+\cos 7A}$ = tan4A

12. Prove that : $\cos20^0\cos40^0\cos60^0\cos80^0$ = 1/16.

13. Prove that: tan3Atan2AtanA = tan3A –tan2A – tanA.

14. Show that : $\sqrt{2 + \sqrt{2 + \sqrt{2 + 2cos8\theta}}}$ = 2cosθ.

15. complete Lab Activities as given in the class.

ACCOUNTANCY

Q1. Write a short note on types of Assets with one example of each.

Q2. Firm has received large order to supply goods .Will it be recorded in the books of account of the firm ? Give reason.

Q3. Capital is a liability for the business. Explain this statement with the principle applied.

Q4. A Company lost vital machinery in an accident on 2nd March ,2022 which will have adverse impact on this production capacity. As a result ,it is likely to lose business to its competitor. The company has not disclose this fact in its annual report for the year ended 31st March 2022. Do you think it it is compulsory with the convention of full disclosure?

Q5. "Only financial transactions are recorded in accounting ".Explain the statement.

Q6. Briefly explain the element of statement of comprehensive Income.

Q7. If the capital of a businesses 300000 liabilities are 50000,loss Rs70000, calculate the total assets of the business.

Q8. X Started a business on 1st April with the capital Rs 50000 and a loan of Rs25000 taken from Y.During 2022-23,he had introduced additional capital of Rs25000 and had withdrawn Rs15000 for personal use.On 31st March 2023 his assets were Rs150000. Find his capital as on 31st March 2023 and profit made or loss incurred during the year 2022-23.

Q9 Indicate how accounting equation is affected if cash is received against service rendered

Q10. If the capital is 100,000 and outside liabilities are 2,50,000 .find the total assets.

Q11. Collection of source documents, preparation of vouchers, recording of transactions with the help of vouchers.

Q12. Comprehensive project of any sole Proprietorship Business. State their journal entry, ledger, trial balance, trading account and balance sheet.

BUSINESS STUDIES

Q1. Compare Business with Profession and Employment.

Q2. Comparative evaluation of forms of business organisation.

Q3. Compare the status of minor in a joint Hindu family business with that of in a partnership firm.

Q4. All the members of a company sitting in a general meeting were killed by bomb. Was the company wound up?

Q5. According to the partnership act 1932 it is not compulsory for a partnership firm to get itself registered ,then why do partner prefer to get the firm registered?

Q6. Who is working as an active partner and what is the nature of his liabilities?

Q7. Draw a flow chart on Business Activities.

Q8. Explain the characteristics of Business.

Q9. Collect some facts about Reliance industry limited and paste in your notebook.

Q10.Collect different types of Bank account and paste their forms.

Q11. Make a project file on any one of the following
1. Visit of an industry
2. Multinational company
3. Banking and finance
4. Insurance
5. Transportation
6. Advertisement

ECONOMICS

Q1. What will be the impact of Covid-19 on PPC of India?

Q2. Give the meaning of microeconomics.

Q3. Will there be any impact of "Self-reliant India" scheme on PPC?

Q4. Define opportunity cost.

Q5. Why does a central problem arise?

Q6. Write two characteristics of resources.

Q7. What do you mean by scarcity?
Q8. Why is the slope of PPC downward?
Q9. Why does the PPC look concave to the origin?
Q10.Define Marginal Rate of Transformation.
Q11. What is positive economic analysis?
Q12. Explain normative economic analysis.
Q13. Make a project File using punch sheet on any one of the following topic.
Suggestive List of Projects:
1. Effect on PPC due to various government policies
2. Invisible Hand (Adam Smith)
3. Opportunity Cost as an Economic Tool (taking real life situations)
4. Effect of Price Change on a Substitute Good (taking prices from real life visiting local market)
5. Effect on equilibrium Prices in Local Market (taking real life situation or recent news)
6. Effect of Price Change on a Complementary Good (taking prices from real life visiting local market)
7. Solar Energy, a Cost Effective Comparison with Conventional Energy Sources
8. Bumper Production- Boon or Bane for the Farmer
9. Any other newspaper article and its evaluation on basis of economic principles

PHYSICAL EDUCATION

1. Elaborate Olympics flame.
2. Write about ancient Olympic games.
3. Describe about paraolympic.
4. Write a detailed note on modern Olympic games.
5. Explain special Olympics.
6. Elaborate Olympics symbols.
7. What is the role of international Olympic committee?
8. Explain the role of Indian Olympic association.
9. Explain meaning and definition of physical education.
10. What is career option in physical education?
11. Write about khelo India program.
12. Complete
    A. Practical record books,
    B. Practical 1,
    C. Labelled diagram of 400 m track and field with computation.