LT. COL. MEHAR LITTLE ANGELS SR. SEC. SCHOOL
HOLIDAY HOMEWORK
CLASS XII (2024-25)

ENGLISH

Q1. PROJECT WORK

Make a project on any of the two topics:

TOPIC: The Last Lesson –Freedom of speech and expression

Cover the following aspects:

1. Linguistic Chauvinism
2. Importance of Language
3. Globalization of Language
4. Franco-Prussian war
5. Historical References of events wherein linguistic identity was threatened.

<div align="center">OR</div>

TOPIC: Lost Spring – life in a slum

Cover the following aspects:

1. Research and case study of a Slum
2. Life of people in a slum.
3. Education
4. Health and Infrastructure
5. Government Initiatives
6. Role of youth in the upliftment of the weaker sections of the society
7. Comparative study of slums
8. Slums of yesterday turned to cities of today

Q2. INTERVIEW BASED RESEARCH PROJECT WORK

TOPIC: The effects of Education on the life of different aged people

Follow the given guidelines:

1. Conduct interviews of different people (children, teenagers, adults, parents and grandparents)
2. Prepare a questionnaire. You may include the following questions-
- Name
- Age
- Gender
- Educational qualification
- What do you mean by education?
- What changes you feel are there in society or in your life due to education?
- Does education affect the understanding \& compromising level of an individual?
- What changes do you expect in society/country?
- What should be the compulsory level of education?
- Are we more educated than the people at the time of 'Gurukuls'?

- (add more questions accordingly)
3. Separate pages to be made for each interview.
4. Compile all the interviews and write a Report presenting the whole view in 600 - 800 words

The Project-Portfolio must include the following:
● Cover page, with title of project, school details/details of students.
● Statement of purpose/objectives/goals
● Certificate of completion under the guidance of the teacher.
● Action plan for the completion of assigned tasks.
● Materials such as questionnaire for interview, survey-reports and other material evidence of learning progress and academic accomplishment.
● The 600-800 words Report.
● Photographs that capture the positive learning experiences.
● List of resources/bibliography.
● Viva will also be taken on the research based project.
● This project and viva comprises of 10 marks for the Internal assessment.

Instructions to be followed:
● All the work should be done on A4 sheets.
● Both the projects are COMPULSORY for everyone.

BIOLOGY

1- Prepare Investigatory Project file as per latest CBSE norms.
2- Complete class Register and practice the diagrams of taught chapters.
3- Complete Practical file.
4- Revise Ch. 1 (Sexual Rep. in flowering plants & Ch. 2 – Human reproduction for Oral test.)

PHYSICS

Complete practical file work and Auxillary copy for following 4 practicals.
Exp.1: To determine resistivity of two / three wires by plotting a graph between potential difference versus current.
Exp.2:To find the resistance of a given wire / standard resistor using metre bridge
Exp.3: To determine the resistance of a galvanometer by half-deflection method and to find its figure of merit.
Exp.4: To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same.
2.Complete Activity file with following 3 activities.
I)To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multimeter.

II)To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and apower source.
III)To assemble the components of a given electrical circuit.
3.Complete classwork copy.
4.Do all the numericals done in class in HW copy separately

COMPUTER SCIENCE

1- Prepare Practical file and Project file as per latest CBSE norms.
2- Complete class Register and practice the programs of taught chapters.
3- Complete the following questions in CS register.

1. Write a program to input any number and to print all the factors of that number.
2. Write a program to input ,.any number and to check whether given number is Armstrong or not.
   (Armstrong 1,153,etc. 13 =1, 13+53 +33 =153)
3. Write a program to find all the prime numbers up to a given number
4. Write a program to find the sum of all digits of the given number.
5. Write a program to find the reverse of a number.
6. Write a program to print the pyramid.
   1
   2 2
   3 3 3
   4 4 4 4
   5 5 5 5 5
7. Write a program to input username and password and to check whether the given username and password are correct or not.
8. Which string method is used to implement the following:
   - To count the number of characters in the string.
   - To change the first character of the string in capital letter.
   - To check whether given character is letter or a number.
   - To change lowercase to uppercase letter.
   - Change one character into another character.
9. Write a program to input any string and to find the number of words in the string.
10.Write a program to implement the scope of variable and all type of parameters of function

CHEMISTRY

1- Do all intext and exercise questions of Ch-1 (Total 67 questions).
2- Make a short notes of this chapter (Max 3-4 pages

MATHEMATICS

Chapter -01(Relations and Functions)
Chapter -02(Inverse Trigonometric Functions)

Q 1 -Define relation.
Q 2- Show that the relation R on the set R of real numbers defined as R={(a,b):a≤b2}
    is neither reflexive nor symmetric nor transitive .
Q 3-Give an example of a relation which is
    (i) Reflexive and symmetric but not transitive.
    (ii) Reflexive and transitive but not symmetric.
    (iii) Symmetric and transitive but not reflexive.
    (iv) Transitive but neither reflexive nor symmetric.

Q 4- Let R be the set of all lines in a plane defined by R= {(l 1,l 2) : l 1 II l 2}.Show
    that R is an equivalence relations.
Q 5- Show that the number of equivalence relations on the set { 1,2,3 } containing
    (1,2) and (2,1) is two.
Q 6- Define functions.
Q 7- Let A and B be two sets .Show that f:A×B→ B×A defined by f(a,b)=(b,a) is
    bisection.
Q.8 Draw the graph of $\sin^{-1}x$,$\cos^{-1}x$,& $\tan^{-1}x$ to their principal value.
Q.9 Find the principal values of the following:
    (i) $\sin^{-1}(-\sqrt{3}2)+\cos^{-1}(-12)$
    (ii) $\csc^{-1}(-2\sqrt{3})+2\cot^{-1}(-1)$
Q.10 Show that f : N→ N defined by , f(n) = $\{n+12$,$if\ n\ is\ odd$ $n2$,$if\ n\ is\ \ even$ is
    many – one onto function.
NOTE: Do any three activity from maths lab manual from chapter 01 & 02.

HOME SCIENCE

1.Complete assignment 1 to 9
2.Complete H.Sc practical file

ECONOMICS

Complete the following questions in Economics register.
    1. What is a government budget? List the objectives of government budget?
    2. Can there be a fiscal deficit in a government budget without a revenue
       deficit?

3. Government raises its expenditure on producing public goods. Which economic value does it reflect?
4. Tax rates on higher income groups have been increased. Which economic value does it reflect?
5. Identify the following as revenue expenditure and capital expenditure. Give reasons.
    a. Repayment of loans
    b. Expenditure on collection of taxes
    c. Subsidies
    d. Expenditure on building a bridge
6. How can a government budget help in reducing inequalities of income?
7. Explain objective of stability of prices of government budget?
8. Name two sources each of non-tax revenue receipts and capital receipts?
9. Distinguish between:-
    a. Revenue deficit and fiscal deficit
10. Define:-
    a. Revenue deficit
    b. Fiscal deficit
    c. Primary deficit
11. Elaborate economic growth as objective of government budget.
12. Reduction in income inequalities raises welfare of the people. How can government help through government budget, in this regard? Explain.
13. Write the difference between revenue receipts and capital receipts?
14. Explain how the government can use the budgetary policy in reducing inequalities in incomes.
15. List the following items as revenue and capital expenditure give reason for the same:-
    a. Subsidies
    b. Repayment of loans
    c. Amount borrowed from UK repaid
    d. Grants given to state government
    e. Expenditure on building a bridge
16. From the following data about a government budget, find out
    a. Revenue deficit
    b. Fiscal deficit
    c. Primary deficit

Particulars	Rs. (Arab)
Capital receipts net of borrowings	95
Revenue expenditure	100
Interest payments	10
Revenue receipts	80
Capital expenditure	110

17. From the following data about a government budget, find

a. Revenue deficit
  b. Fiscal deficit
  c. Primary deficit

Particulars	Rs. (Arab)
Tax revenue	47
Capital receipts	34
Non-tax revenue	10
Borrowings	32
Revenue Expenditure	80
Interest payments	20

BUSINESS STUDIES

Chapter 1: Nature and significance of Management
Chapter 2: Principles of management
Chapter 3 business environment
All questions of ncert book
Practical file of BST

INFORMATICS PRACTICES

1- Prepare Practical file and Project file as per latest CBSE norms.
2- Complete class Register and practice the programs of taught chapters.
3- Revise and practice the programs of Unit-I Data Handling using Pandas (Series and DataFrame)

Practical File Work (Suggested Practical Program List for Practical File)
Data Handling
1. Create a panda's series from a dictionary of values and a ndarray
2. Given a Series, print all the elements that are above the 75th percentile.
3. Create a Data Frame quarterly sales where each row contains the item category, item name, and expenditure. Group the rows by the category and print the total expenditure per category.
4. Create a data frame for examination result and display row labels, column labels data types of each column and the dimensions
5. write a program to find the Total salary of all employees in the dataframe employee without using any aggregate function.
6. write a Python program to sort the following data in ascending order of age.

Name	Age	Designation
Seema	36	Manager
Nikshav	40	Clerk
Rajni	39	Accountant

ACCOUNTANCY

CLASS XII: Holiday Homework 2024-25
1.   Write difference between charge against profit and appropriation of profit.
2.   Do illustration 22 to 37 and 61 to 68 of Chapter 1 from TS Grewal's Book.
3.   Do Question No. 1 to 14 on page No. S.13 of Scanner given at the end of the book
4.   Do the Assignment sent on WhatsApp group.

PHYSICAL EDUCATION

PROJECT WORK
Prepare project file as per the latest cbse norms.
Practical-1 : Fitness tests administration. (SAI Khelo India Test)
Practical-2: Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease.
Practical-3: Anyone one IOA recognized Sport/Game of choice. Labelled diagram of Field & Equipment. Also mention its Rules, Terminologies & Skills.