

KENDRIYA VIDYALAYA AFS SULUR  
ACADEMIC YEAR (2022-23)  
WINTER HOLIDAYS HOMEWORK[9to12]

**Biology:[11&12]**

Class 12 A- Solve sample papers 4,5,6 &7  
Class 11 A-Homework lessons,  
Photosynthesis in higher plants,  
Respiration in plants,  
Plant growth and development.

**Maths[9]:**

1. Exercise 10.1 Q.N - 1,2
2. Exercise 10.2 Q.N - 2
3. Exercise 10.3 Q.N - 3
4. Exercise 10.4 Q.N - 4,5,6
5. Exercise 10.5 Q.N - 4,6,7,9,10
6. Exercise 12.1 Q.N - 1,3,4,6
7. Exercise 13.3 Q.N - 2,5,7,8
8. Exercise 13.4 Q.N - 3,6,9
9. Exercise 13.7 Q.N -5,6,7,8,9
10. Exercise 13.8 Q.N -2,7,9,10

**Maths[6]**

1. Learn and write tables from 2 to 20 .
2. Exercise 7.1 Q.N-- 6, 8,11
3. Exercise 7.2 Q.N-- 1,3
4. Exercise 7.3 Q.N—1,5,8,10
5. Exercise 8.1 Q.N—4,7,10
6. Exercise 8.2 Q.N – 4,6
7. Exercise 8.3 Q.N – 1
8. Exercise 8.4 Q.N –2,5
9. Exercise 8.5 Q.N – 3,5,7
10. Exercise 8.6 Q.N – 1,3,4,5,6,7

Artificial Intelligence :(10)

1. Explain about Project life cycle?
2. Raju attended a seminar on Artificial Intelligence and has now been asked to write a report on his learnings from the seminar. Being a non-technical person, he understood that the AI enabled machine uses data of different formats in many of the daily based applications but failed to sync it with the right terminologies and express the details. Help Raju define Artificial Intelligence, list the three domains of AI and the data that is used in these domains.
3. Neural networks are said to be modelled the way how neurons in the human brain behave. A similar system is mimicked by the AI machine to perform certain tasks. Explain how neural networks work in an AI model and mention any three features of Neural Networks.
4. Sneha, a student of class X was exploring the Natural Language Processing domain. She got stuck while performing the text normalization . Help her to normalise the text on the segmented sentences given below and find TF-IDF.  
Document 1: Akshaya and Anu are best friends.  
Document 2: Akshaya likes to play football but Anu prefers to play online games.
5. A lot of times people face the problem of sudden downpour. People wash clothes and put them out to dry but due to unexpected rain, their work gets wasted. Thus, an AI model has been created which predicts if there will be rain or not. The confusion matrix for the same is
 

Confusion Matrix		Reality	
		Yes	No
Predicted	Yes	60	25
	No	05	10

  - (i) How many total tests have been performed in the above scenario?
  - (ii) Calculate precision, recall and F1 Score

**Artificial Intelligence [class 9]:**

**Mini Project**

<https://data-flair.training/blogs/artificial-intelligence-project-ideas/>

Find the above link for your reference...choose any AI based project and complete

**Informatics Practices[Class -11]**

1. Consider the table Library and the queries, predict the output:

Title	Author	Pub	Price
Data Structure	Lipschutz	McGraw	217
Computer Science	Sumita Arora	BPB	75
DBMS	Palmer	BPB	350
OS	Norton	PHI	175

I. select \* from Library where Title like "O%"  
II select \* from Library where Price>100

III select distinct(Pub) from Library  
IV select Author from Library

V select Title from Library where Price >200

2. Write the SQL Queries to perform the following:

1. Create the database school
2. Select the database school
3. Create a table student inside the school database having studentid, studentname, and gender
4. Insert 1 record in the table student
5. Display all the records from the table student

3. Write the SQL queries to perform the following:
  1. Create a table employee with employeeid, employeename, designation and salary
  2. Insert 2 records in the table
  3. Select all the records from the table employee
  4. Select two columns employeename and designation from the table employee
  5. Select all the details of employee whose employeeid is 1
4. Based on table STUDENT given here,

RollNo	Name	Gender
1	Abhishek	M
2	Anamika	F

write SQL for the

suitable queries

following:

- i. Display the whole table
  - ii. Display the Name column of the table
  - iii. Display the name of females
5. preferences as shown below. Answer the following

Table: Sports Preferences

Roll_no	Preference
9	Cricket
13	Football
17	Badminton
21	Hockey
24	NULL
NULL	Kabaddi

1. What is the degree and cardinality of the table
- Can Roll\_No be the primary key. Give the reason for the same

6. Consider the table EMP\_TBL and answer the following:

ECode	EName	Dept	Salary
101	Gautam Gupta	Sales	55000
102	Nina Sharma	Marketing	62000
103	Venkat	HR	75000
104	Karan Kumar	Sales	45000
105	Asha Yadav	HR	72000

A. Write Query :

- i) To display the names of employees whose salary is between 50000 and 70000.
- ii) To display the name and salary of employees of sales department.

B. Predict Output

- i) `SELECT Ename FROM EMP_TBL WHERE dept="Sales";`
- ii) `SELECT salary FROM EMP_TBL WHERE ECode="103";`

CLASS XII SUBJECT: ACCOUNTANCY

1. **COMPREHENSIVE PROJECT** CONSISTING OF JOURNAL/SUBSIDIARY BOOKS, LEDGER, TRIAL BALANCE, TRADING AND PROFIT AND LOSS ACCOUNT AND BALANCE SHEET. ANALYSING THE FINANCIAL STATEMENTS WITH THE HELP OF RATIO ANALYSIS.

2. SPECIFIC PROJECTS -COMPARATIVE STUDY OF INCOME AND POSITION STATEMENT OR CASH FLOW STATEMENT OR SEGMENT ANALYSIS.

CLASS XII SUBJECT: BUSINESS STUDIES

1. PROJECT ON PRINCIPLES OF MANAGEMENT

2. PROJECT ON BUSINESS ENVIRONMENT

3. PROJECT ON FINANCIAL MARKET

4. PROJECT ON MARKETING.

HOLIDAY HOMEWORK-WINTER BREAK-2022

CLASS: XI SUBJECT: ACCOUNTANCY

TOPICS	PAGE NO	QUESTION NUMBER
ACCOUNTING EQUATION	5.20	9&10
JOURNAL, LEDGER & TRIAL BALANCE	8.51	6
CASH BOOK	10.38&10.39	2,3,5,6&7
SUBSIDIARY BOOKS	11.36&11.37	9,11&12
BANK RECONCILIATION STATEMENT	13.46	3,4&5
TRIAL BALANCE	14.23	4
DEPRECIATION	15.41,15.42,15.43	4,8,10,17&18

### 11c. Business studies.

A4 sheet 25 pages only 1 side.

Using newspaper , magazines and other business references identify and describe atleast three companies that u think are socially irresponsible and three companies that u think are socially responsible. OR In A4 sheet 20 pages .

Compare and contrast the products and their prices available in the internet and retail shops. Is the quantity customer satisfaction and other factors are same.

### 12c. Economics.

1. Complete your project and prepare for viva.....
2. Solve the sample question paper.

### 12BC COMPUTER SCIENCE /IP

Completion of Investigatory Project

### 11B COMPUTER SCIENCE

Study the portion of “List and Tuple”

### ENGLISH 9

1. Create conversation between St.Peter and Happy Prince when they happen to meet in heaven
2. Write travelogue on any place you visited during vacation.







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