



UNIVERSAL ACADEMY, DEHRADUN
SUMMER HOLIDAYS HOMEWORK
SESSION 2023-24
CLASS-XII(SCIENCE)

SUBJECT: ENGLISH

PROJECT WORK

Prepare a project file on the following poems:

- a. Aunt Jennifer's Tigers
- b. A Thing of Beauty

The file should comprise of the information about the poems as per the given guidelines:

- 1.) About their poets
- 2.) Theme/Message
- 3.) Summary
- 4.) Look for the poetic devices(any 5) used in the above mentioned poems.

* Project File needs to be covered with yellow sheet with school logo.

* It should have the following headings:

1. Acknowledgement
2. Certificate
3. Index
4. Introduction
5. Content
6. Bibliography

SUBJECT : PHYSICS

PROJECT WORK

Make project on the given topic as per Roll no stated below:

Class XII A(PCM)

1. Interference of light (1-3)

2. Transformer (4-6)
3. Electromagnetic induction(7-9)
4. Semiconductor (10-12)
5. Atom (13-15)
6. PN junction diode(16-18)
7. Rectifier (19-21)
8. AC Generator(22-24)
9. Capacitor (25-27)
10. Moving coil galvanometer(28-30)
11. Registers and ohm's law (31-33)
12. Diffraction of light . (34-35)

Make project on the given topic as per Roll no stated below:

Class XII A (PCB)

1. Interference of light (1-2)
2. Transformer (3-4)
3. Electromagnetic induction(5-6)
4. Semiconductor (7-8)
5. Atom (9-10)
6. PN junction diode(11-12)
7. Rectifier (13-14)
8. AC Generator(15-16)
9. Capacitor (17-18)
10. Moving coil galvanometer(19-20)
11. Registers and ohm's law (21-22)

Note

Project work should be done in thread cardboard file and in white colored practical pages only

A project should have the following outline:

1. Index, Acknowledgement and Certificate
2. Introduction
3. Theory and Method & procedure
4. Explanation
5. Conclusion
6. Bibliography

SUBJECT : CHEMISTRY

PROJECT WORK

Make project on the given topic as per Roll no stated below:

1. To Study the Effect of Fertilizer on Water(roll no 1 to 5)
2. To Study of the Food Adulterants (6 to 10)
3. Biodiesel: The future of the Fuel(11 to 15)
4. To Study the Hardness of Water (16 to 20)
5. Chemicals Affecting the ripening the fruits (21 to 25)
6. Is Bottled Water more purified than tap Water? (26 to 30)
7. To Study the Effects of the Acid Rain on Plant Growth (31 to 35)

A project should have the following outline:

1. Index, Acknowledgement and Certificate
2. Objectives
3. Introduction
- 4 Method & procedure
5. Material and Resources used
6. Observation and Data used
7. Analysis of Data
8. Conclusion
9. Limitations
10. Bibliography

Note:

Project work should be done in thread cardboard file and in white colored practical pages only
Student of class XII (PCB) will do the project till S.No 5 .

SUBJECT : BIOLOGY

PROJECT WORK

Make project on the given topic as per Roll no stated below:

1. Microbes in human welfare- Roll no.1 to 3
2. Reproductive Health- 4 to 6
3. Human health and diseases- 7 to 9
4. Applications of biotechnology- 10 to 12
5. DNA fingerprinting- 13 to 15
6. Cancer - 16 to 18
7. Biodiversity conservation- 19 to 20
8. Infertility - 21 to 22

Note

Project work should be done in thread cardboard file and in white colored practical pages only

A project should have the following outline:

1. Index, Acknowledgement and Certificate
2. Introduction
3. Theory and Method & procedure
4. Explanation
5. Conclusion
6. Bibliography

SUBJECT : MATHS

Do the worksheet in your notebook.

SUBJECT : PHYSICAL EDUCATION

PROJECT WORK

Do the project on any of the following sports

1. Badminton
2. Kho Kho
3. Athletics
4. Football
5. Volleyball
6. Basketball
7. Table Tennis

A project should have the following outline:

1. Introduction of the game
2. Rules and regulations
3. Ground & field marking
4. Measurement
5. Related player's name.

SUBJECT : HINDI

PROJECT WORK

कवितावली पर एक परियोजना तैयार कीजिए । यह कार्य प्रोजेक्ट फाइल में करना है

SUBJECT : INFORMATICS PRACTICE

1. PRACTICAL WORK

All Students need to prepare the Practical File with the following programs.

1. Create a pandas series from a dictionary of values and an ndarray.
2. Write a Pandas program to perform arithmetic operations on two Pandas Series.
3. Write a Pandas program to add some data to an existing Series.
4. Write a Pandas program to select the rows where the percentage greater than 70.
5. Write a Pandas program to select the rows the percentage is between 70 and 90 (inclusive)
6. Write a Pandas program to change the percentage in a given row by the user.
7. Write a Pandas program to join the two given dataframes along rows and assign all data.
8. Write a Pandas program to join the two given dataframes along with columns and assign all data.
9. Write a Pandas program to append a list of dictionaries or series to an existing DataFrame and display the combined data.
10. Write a Program to select or filter rows from a DataFrame based on values in columns in pandas (Use of Relational and Logical Operators)

2. PROJECT WORK

Make project on the given topic as per the List stated below:

S.No	Group Topics	Student Name
1	Car Sales Analyzer	1. Aditya Bhardwaj 2. Vardaan 3. Advit Singh
2	Analysis Of Crime Record	1. Samiksha 2. Yashasvi Malik
3	Analysis of Vegetable Price	1. Ojasv Rana 2. Pranjal Ghildiyal 3. Aditya Gupta
4	Analysis of Olympics Games	1. Ekash Gupta
5	Analysis of Asiad Games	1. Farhan Ali
6	Growth Of Population in the state of Uttrakhand.	1. Chhavi 2. Krisha 3. Palak Sajwan
7	Analysis of Rise of Global	1. Ritesh

	Temp.	2. Nalin 3. Prabhu
8	Growth of Export and import in india.	1. Harshit Monga
9	Car Sales Analyzer – Model Wise	1. Bhumika 2. Siddhi
10	Analysis of Literacy Rate in India	Ishika Bansal

A project should have the following outline:

1. Index, Acknowledgement and Certificate
2. Objectives
3. Introduction
4. Problem Statement
5. Resources needed
6. Source Code
7. Screen Shot
8. Limitation of the project
9. .Bibliography

SUBJECT: PSYCHOLOGY

PROJECT WORK

Prepare a case study of any individual based on the following format:

A project should have the following outline:

1. Introduction
2. Observation
3. Symptoms
4. Conclusion
5. Suggestion

Dates for submission of Holiday homework

All subjects: 1st JULY 2023 (8 a.m. -11 a.m. Only)

NOTE: Holiday Homework will not be accepted after the dates assigned.