

GEETA DEVI DAV PUBLIC SCHOOL BHANDARKOLA, SATAR ROAD, DEOGHAR

SUMMER VACATION HOLIDAY HOME WORK-(2025-26)

Class: -XI (Science ,Commerce & Humanities)

ENGLISH

ASSIGNMENT

- Write a brief review of any two chosen stories including commentary on the characters, plot, and overall message.
- In schools and colleges, a great stress is laid on the importance of discipline in life. Express your ideas in a form of a speech on 'Importance of discipline in life' for your school magazine in about 250 words.
- Prepare a list of any twenty idiomatic expressions with meaning and examples.

PROJECT

Prepare a project on any ethnic tribe of India. You may write about people, their names, traits, geographic and economic features using relevant pictures in a scrap book or a project file.

BIOLOGY

Q1. Prepare an investigatory project on topic discussed in class and submit its typed record (in 10-15 pages)

Q2. Draw the diagram of

Morphology of Flowering plants

Or

Body fluids and Circulation

Or

Cell cycle

- Q3. Solve all questions of NCERT textbook exercise from chapter 2. & 3.
- Q4. Write the following in details:-
- a) Viruses and viroids differ in structure and the diseases they cause. How?
- b) Which class of Kingdom fungi has both unicellular as well as multicellular members?
- c) When is a fungus called coprophilous?
- d) Explain "Numerical taxonomy".
- e) Distinguish between bacteria & cyanobacteria?

PHYSICS

A. Write and learn dimension of 50 different physical quantities?

B. Answer the following questions:

1. If, v stands for velocity, L for length, T for time and M for mass, what is the value of x in the equation: $L = vT/(M^x)$?

a) 3

b) 2

c) 1

d) 0

2. Assuming standard notations, which of the following quantities is dimensionless?

a) v/a

b) P/Fv

c) FE/L

d) V²/g

3. If the units of length and time are doubled, what will be the factor by which the unit of acceleration will change?

a) 1

b) 0.25

c) 0.5

d) 2

4. What are the dimensions of a light year?

a) L

b) T

c) LT⁻¹

d) M

5. The displacement of a particle is given by $x = (t - 2)^2$ where x is in metres and t in seconds. The distance covered by the particle in first 4 seconds is

(a) 4 m

(b) 8 m

(c) 12 m

(d) 16 m

6. A ball is dropped from a building of height 45 m. Simultaneously an another ball is thrown up with a speed 40 m/s. Calculate the time when they collide.

7. If velocity of light c, Planck's constant h and gravitational contant G are taken as fundamental quantities then express mass, length and time in terms of dimensions of these quantities.

8. A physical quantity X is related to four measurable quantities a, b, c and d as follows: $X = a^2 b^3 c^{5/2} d^{-2}$. The percentage error in the measurement of a, b, c and d are 1%, 2%, 3% and 4%, respectively. What is the percentage error in X?

Note : All the work must be done in separate HW copy.

CHEMISTRY

Q 1.Define the law of multiple proportions. Explain it with two examples. How does this law point to the existence of atoms.

2.Volume of a solution changes with change in temperature, then, will the molality of the solution be affected by temperature? Give reason for your answer.

3.According to de Broglie, the matter should exhibit dual behaviour, that is, both particle and wave like properties. However, a cricket ball of mass 100 g does not move like a wave when it is thrown by a bowler at a speed of 100 km/h. Calculate the wavelength of the ball and explain why it does not show wave nature.

4. What is the difference between the terms orbit and orbital?

5. What is the photoelectric effect? State the result of a photoelectric effect experiment that could not be explained on the basis of laws of classical physics. Explain this effect on the basis of quantum theory of electromagnetic radiation.

MATHS

Project Work

> Draw the graph of different types of functions and as per graph find their domain and range.

Assignment

Solve all the problems of the topic Relation & Function and Trigonometry in a separate notebook.

ACCOUNTANCY

General Instructions:

- Home work should be done in a Separate Note Book which will be submitted on the first day after summer vacation.
- Use only Black and Blue pen and Colour Pencils if requires.
- > Paste required Colourful Pictures on chart Paper and present it attractively.

Home Work

- > Explain all the basic Accounting terms.
- > Write the steps of Journalizing.
- > Write the rules of Debit and Credit.
- > Solve four missing figure problems of Journal.
- > Prepare a chart of Assets and Liabilities with pictures.

BUSINESS STUDIES.

General Instructions:

- Home work must be submitted in a Project file and all the contents should be hand written on project paper (one side rule and one side blank).
- Project must have Cover Page, Acknowledgement, Index, Preface, Certificate by teacher, Introductory page, Content pages, Conclusion, Reference and Bibliography
- > Use only Black and Blue pen and Colour Pencils if requires.
- > Paste required Colourful and present it attractively.
- > Project will be submitted on the first day after Summer vacation.

Home Work

1. Field Visit:

> Visit to a Mall

The students are required to observe the following and prepare a Project report on it. Present all the information using tables, diagrams and pictures.

- (a) Number of floors, shops occupied and unoccupied
- (b) Nature of shops, their ownership status (Sole proprietorship, Partnership, HUF, Joint Stock company and Cooperative Society
- (c) Nature of goods dealt in: local brands, international brands
- (d) Service business shops- Spas, gym, salons, 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

2. Case Study on a Product

Students may develop a Case Study on the following lines:

(i) Research for change in price of the product. For example, Peda in Deoghar during 'Saavan'.

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

(ii) 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 Pooja season, prices near the place of origin and away.

Present all the information using tables, diagrams and pictures.

ECONOMICS

Instructions:

- This assignment must be handwritten on A4 sheets.
- Use diagrams wherever applicable.
- Complete the work neatly and submit on the first day after vacation.

Part A: Introduction to Microeconomics

- 1. Define the following concepts:
 - Microeconomics
 - Scarcity
 - Opportunity Cost
 - Central Problems of an Economy
- 2. Differentiate between microeconomics and macroeconomics. Create a table with at least 3 points of distinction.
- 3. Explain the three central problems of an economy with suitable examples.
 - What to produce
 - How to produce
 - For whom to produce
- 4. Write a short note on 'Production Possibility Curve' (PPC) with a diagram.
- Definition
- Shape of the curve
- Meaning of points on and outside the curve

Part B: Consumer's Equilibrium

- 1. State the law of diminishing marginal utility with an example.
- 2. Explain the conditions for consumer's equilibrium in case of:
- a. Single commodity
- b. Two commodities (Use utility approach)
- 3. Differentiate between Total Utility (TU) and Marginal Utility (MU) with a table.
- 4. Project Activity :

Make a chart or collage explaining consumer equilibrium using either:

- Utility analysis OR
- Indifference curve approach (any one)

HISTORY

ASSIGNMENT

1. COLLECT INFORMATION ABOUT TABLETS, SEALS, CUNEIFORM, STELES & DIVISION OF LABOURERS IN MESOPOTAMIA CIVILIZATION.

2. PREPARE THE DETAIL TIMELINECHART OF MESOPOTAMIA CIVILIZATION

PROJECT

1. COLLECT THE PICTURES OF TABLETS, CUNEIFORM, ASTRONOMY & LITERATURE ON CLAY WITH DETAILED INFORMATION

2. DRAW THE 6 DIFFERENT SOCIAL CLASSES OF MESOPOTAMIA SOCIAL HIERARCHY.

POLITICAL SCIENCE

- 1. Write about different sources of the Indian constitution.
- 2. Write about different features of the Indian constitution.
- 3. Explain the different fundamental rights.
- 4. Write about the different fundamental duties
- 5. Write about the different political theories
- Write the Preamble of Indian constitution in a decorative manner.

COMPUTER SCIENCE

- Q.1 When was Python released?
- Q.2 Who developed Python?
- Q.3 Which two languages contributed to Python as a Programming Language?
- Q.4 Is Python an Object Oriented Language?
- Q.5 Python got its name from which show?
- Short Answer Type Questions :
- Q.1 "Python is an interpreted language". What does it mean to you?
- Q.2 What does a cross platform language mean?
- Q.3 Python is a Free and Open Source language. What do you understand by this feature?
- Q.4 In how many ways, can you work in Python?
- Q.5 What is the difference between Interactive mode and Script Mode in Python?
- Q.6 What are the advantages of Python?
- Q.7 What are the limitations of Python?

INFORMATICS PRACTICES

- 1) What is the hardware? What type of software is required to run the hardware devices? Give one example.
- 2) What is Utility Software? Write it's significance in computer performance.
- 3) Give two differences between a compiler and interpreter.
- 4) What is the difference between RAM and ROM?
- 5) Draw the block diagram of computer system and explain each part briefly.
- 6) Differentiate between free and open source software and proprietary software with one example of each.
- 7) What is the purpose of using secondary memory? Give some example of secondary memory device. What is the storage capacity of a CD?
- 8) When was Python released?
- 9) Who developed Python?
- 10) Python got its name from which show?
- 11) "Python is an interpreted language". What does it mean to you?
- 12) What does a cross platform language mean?
- 13) Python is a Free and Open Source language. What do you understand by this feature?
- 14) What is the difference between Interactive mode and Script Mode in Python?
- 15) What are the advantages of Python?