SUMMER VACATION HOLIDAY HOMEWORK
CLASS- XI

ENGLISH

General Instructions:

- Complete the following tasks in your English Project File.

- Write neatly on A4-sized ruled sheets.

- Use headings and subheadings where necessary.

- Decorate the file creatively but avoid excess.

- Ensure originality and avoid copying directly from the internet.

Sequence of Questions to be Attempted:

1.1. Biography and Literary Contributions

Research and write a detailed biography of Khushwant Singh, highlighting:

- His early life and education

- Major literary achievements and recognitions

- Contribution to Indian English literature

- A brief overview of at least three of his most notable books

2. 2. Poem Composition

Write an original poem dedicated to your parents or grandparents, reflecting your love, admiration, and gratitude.

- Use poetic devices like imagery, rhyme, metaphor, or simile

- Minimum 3 stanzas

3. 3. Report on the Garoghlanian Tribe

Based on the short story “The Summer of the Beautiful White Horse” by William Saroyan:

- Locate Armenia and ancient Assyria on the world map

- Prepare a write-up on the Garoghlanian tribe as portrayed in the story Include the following points:

- Their lifestyle, values, and character traits

HINDI

1- 'मियां नसीरुद्दीन' पाठ के आधार पर अपने क्षेत्र या मोहल्ले में स्थित 'स्ट्रीट फूड' की विशेषता बताते हुए डेढ़ सौ शब्दों में एक आलेख अपनी उत्तर-पुस्तिका में लिखिए।

2- किसी दैनिक समाचार पत्र में से संपा□कीय, अर्थ जगत और खेल समाचार को संकलित कर एक चार्ट पेपर पर कोलाज बनाइए।

MATHS

1. Draw venn-diagrams of any two of the following sets {by colouring the regions on chart paper}.

(i) (i) $A \cup (B \cup C)$
(ii) $(A - B) \cup (B - C)$
(iii) $(A \cap B)^T \cap B^T$
(iv) $A^T \cap B^T \cap C^T$

2. Choose a famous mathematician (e.g., Brahmagupta, Euclid, Gauss, Euler, Ramanujan, or Aryabhata) and create a project that includes:

a. A short biography of the mathematician (birth, education, notable achievements).

b. Explanation of one of their significant contributions to mathematics.

c. The impact of their work on modern mathematics.

d. Visuals: Include portraits, diagrams, or other relevant images.

PHYSICS

Q1 Derive the dimensions of the gravitational constant (G).

Q2 A force F is given by , where m is mass, a is acceleration, v is velocity, and k is a constant. Find the dimensions of k.

Q3 Motion in a Straight Line A car moves along a straight road with uniform acceleration. It passes two points 100 m apart in 10 s, and its speed as it passes the second point is 19 m/s.

a) Find the acceleration.

b) What was the speed at the first point?

c) What distance had it covered before the first point?

Q4 Activity – Create a "Motion Tracker" Table

Use your phone’s stopwatch or any timer to track a person walking/running:

a) Measure the time taken to walk 5 m, 10 m, and 15 m.

b) Record the time and distance in a table.

c) Plot a simple distance-time graph and calculate average speed for each segment.

d) Comment: Was the motion uniform or non-uniform?

Q5 Historical Physics Write a short note (150–200 words) on the contribution of Galileo or Newton in developing the concept of motion. Relate their ideas to what you've studied in the chapter.

CHEMISTRY

XI- A

1. What will be the mass of one atom of C-12 in grams?
2. What is the symbol for SI unit of mole? How is the mole defined?
3. What is the difference between molality and molarity?
4. Calculate the mass percent of calcium, phosphorus and oxygen in calcium phosphate $Ca_3(PO_4)_2$.
5. 45.4 L of dinitrogen reacted with 22.7 L of dioxygen and 45.4 L of nitrous oxide was formed. The reaction is given below:
$2N_2(g) + O_2(g) \rightarrow 2N_2O(g)$
Which law is being obeyed in this experiment? Write the statement of the law?
6. A vessel contains 1.6 g of dioxygen at STP (273.15K, 1 atm pressure). The gas is now ransferred to another vessel at constant temperature, where pressure becomes half of the original pressure. Calculate
(i) volume of the new vessel.
(ii) number of molecules of dioxygen.
7. Calcium carbonate reacts with aqueous HCl to give $CaCl_2$ and CO_2 according to the reaction given below:
$CaCO_3 (s) + 2HCl (aq) \rightarrow CaCl_2(aq) + CO_2(g) + H_2O(l)$
What mass of $CaCl_2$ will be formed when 250 mL of 0.76 M HCl reacts with 1000 g of $CaCO_3$? Name the limiting reagent. Calculate the number of moles of $CaCl_2$ formed in the reaction.
8. Define the law of multiple proportions. Explain it with two examples. How does this law point to the existance of atoms?
9. A box contains some identical red coloured balls, labelled as A, each weighing 2 grams. Another box contains identical blue coloured balls, labelled as B, each weighing 5 grams. Consider the combinations AB, AB_2, A_2B and A_2B_3 and show that law of multiple proportions is applicable
10. Match the following:

(i) 88 g of CO_2	(a) 0.25 mol
(ii) 6.022 ×1023 molecules of H_2O	(b) 2 mol
(iii) 5.6 litres of O_2 at STP	(c) 1 mol
(iv) 96 g of O_2	(d) 6.022 × 1023 molecules
(v) 1 mol of any gas	(e) 3 mol

CHEMISTRY
XI- B

1. Write answer of given questions on A-4 sheet

(i) Chapter -1 NCERT exercise all questions.

(ii) Chapter -1 Solved examples

(iii) Chapter -1 solved Exampler questions

BIOLOGY

1. What are the various stages of meiotic prophase 1? Enumerate the chromosomal events during each stage.

2. Write the functions of following.....

(i) Centeromere

(ii) Cell wall

(iii) Smooth ER

(iv) Golgi apparatus

(v) Centrioles.

3. Draw the structure of mitochondria and chloroplast and write their functions.

INFORMATION PRACTICES

Q1. Who developed Python Programming Language?

Q.2 'Python is and interpreted high level language'. What does it mean to you?

Q.3 Python is a Free and Open Source language. What do you understand by this feature?

Q.4 Which of the following are not valid string in Python?

(a) "Hello" (b) 'Hello' (c) "Hello' (d) 'Hello" (e) {Hello}

Q.5 Write a python program to obtain three numbers and print their sum by input method.

HISTORY

The students should make a project/ model showing the layout of a mesopotamian city like ur or uruk

The project should consist of the followings:

1- Title page

2- Acknowledgement

3- Table of contents

4- Introduction

5- Picturs , data and other relevant informations

6- Bibliography and refrences

GEOGRAPHY

1. Create a Poster:

Make a colorful poster explaining the Big Bang Theory and formation of the solar system. Include diagrams and a timeline.

2. Timeline Creation:

Draw a timeline of major geological and cosmic events, starting from the Big Bang to the formation of Earth's atmosphere and oceans.

3. Model Making:

Use clay or chart paper to create a 3D model of the solar system, showing planet sizes and distances (scaled).

POLITICAL SCIENCE

Q.3. Prepare a project files on any one of the topics from both books political theory an introduction and Indian constitution at work. It should be a research work including at least 30 to 35 pages.

ECONOMICS

1. What do you mean by the production possibilities of an economy?

2. Throw some light on the consequences of lockdown on the productivity of our nation.

B. ST.

(A) Complete your notebook.

(B) Project Work-

1. Select and visit any one business of your choice (e.g., retail shop, service provider, or manufacturing unit) in your surroundings and:

2. Write about their profile in details.

3. Collect informations about selected organisation with the help of given sheet.

4. All project work should be done in a file.

ACCOUNTANCY

1. Complete your note book till the chapter Accounting Equations.

2. Collect 20 images of source documents with the help of internet/ institution and give details of them in a file.

3. Solve 10 numerical problems on the topic Accounting Equations and 5 numerical problems on the topic Accrual and Cash basis of Accounting with the help of Internet/ textbook.

P. ED.

To be written in the Practical File

Q1. Practical Games

Write about any one team game under the following headings in your practical file:

1. History of the game

2. Main tips at a glance / Measurements

3. Latest general rules

4. Fundamental skills

5. Terminology

6. Important tournaments and venues

7. Sports awards

Q2. Lifestyle Diseases and Yoga Asanas

Write about the following lifestyle diseases along with any three yoga asanas for each, in the given sequence:

1. Obesity

2. Diabetes

3. Asthma

4. Hypertension

5. Back pain and arthritis

Note: Use proper pictures and diagrams wherever necessary.

PSYCHOLOGY

Activity Question:
Observe any two people (friends, family, etc.) for 10 minutes each and note their observable behaviours.
Write:
1. What did you observe?
2. What might be the reasons behind their behaviour?

Activity - 2
Real-life Application:
Think of a situation where you or someone you know was feeling anxious (e.g., before an exam, speaking in public).
1. Describe the situation.
2. What behaviours were observed?
3. What might have caused those behaviours?

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