DAV PUBLIC SCHOOL, SASARAM
H.A. & P.W. for SUMMER VACATION 2025-26
CLASS – XI

English

1. By 2050, India will be amongst the countries which will face acute water shortage. You are highly alarmed and terrified of the future world without water. So, write an article on "Save water- are we doing enough?" for the local daily in 150-200 words.
2. The recent rise in incidents of violent behaviour of students is a matter of concern for all. The problem can be curbed if students learn how to manage anger. Write a speech on the topic in 150-200 words to be delivered in the school morning assembly.
3. Differentiate between phrases and clauses. Define them and write their types with at least one example.

Physics

A: Prepare a short video of Demonstration project on any one of the following topics from XI class curriculum and make a report explaining the theory behind the working and its graphical analysis.
1. To demonstrate that a force called centripetal force is required by a body which is moving in a circle with a uniform speed.
2. To demonstrate conservation of linear momentum.
3. To demonstrate inter conversion of potential and kinetic energy.
4. to demonstrate free oscillations of different vibrating systems e.g. simple pendulum, loaded spring and floating test tube.
5. To demonstrate the effect of angle of launch on the range of projectile.
6. To demonstrate longitudinal and transverse waves.
7. To make a paper scale of given least counts 0.2cm and 0.5cm.
8.To demonstrate whether time period of a simple pendulum depends on factors like length of string, mass of bob, angle through which the bob is displaced or not.
Note: You can use software tools also available online to analyse the outcome graphically after uploading video and further using it to interpret the results/outcomes.

Biology

A. Prepare notes on all the cell organelle discussed in class room.

Chemistry

1. Calculate the no. Of atoms in a sample of 100 u of Helium.
2. Calculate the no. Of atoms in 12 g of C-12.
3. Calculate the mass of 1.5×10^{23} atoms of hydrogen.

Mathematics

Do set théory ; Relation and Function ; Trigonometry by side book

Informatics Practices:

Write notes on: Computer Sytem, Input and output Devices, Software and its types, Device Driver, Language processor, Memory and its types

Accountancy

Q 1. Define Accounting. Explain briefly any five advantages of Accounting.
Q 2. Briefly appreciate the exact nature of accounting .
Q 3. Distinguish between Book-keeping and Accounting.
Q 4. Raghunath had the following transactions in an accounting year:
(i) Commenced business with cash ☐ 50,000.
(ii) Paid into bank ☐ 10,000.
(iii) Purchased goods for cash ☐ 20,000 and credit ☐ 30,000.
(iv) Sold goods for cash ☐ 40,000 costing ☐ 30,000.
(v) Rent paid ☐ 500.
(vi) Rent outstanding ☐ 100.
(vii) Bought furniture ☐ 5,000 on credit.
(viii) Bought refrigerator for personal use ☐ 5,000.
(ix) Purchased motorcycle for cash ☐ 20,000.
Create an Accounting Equation to show the effect of the above and also show his Balance Sheet.
PW :-

Prepare a format of accounting equation on chart paper.

ECONOMICS

HA:-
Q1.) Explain the Three Distinct Components of Economic Activity.
Q2.) State the significance of Statistics in construction of economic theory and economic forecasting .
Q3.) What were the main causes of India's agricultural Stagnation during the colonial period ?
PW:-
Prepare a chart on Stages of Statistical Study.