

DAV PUBLIC SCHOOL, SASARAM

Home Assignment (H.A) for Summer Vacation

Class – XI Session - 2024-25

ENGLISH

1. Grow more trees to reduce pollution.' Write an article in 150-200 words on the topic given qabove for your school magazine.
2. 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.
3. As Mukul / Mahima of Alps Public School, write a speech to be delivered in school assembly highlighting the importance of cleanliness suggesting that the state of cleanliness reflects the character of its citizens. (150-200 words)

PHYSICS

2. What do you understand by derived physical quantities? Give examples.
3. How many astronomical units (A.U.) make 1 Parsec?
4. Express 1 parsec in terms of light years.
5. Which is a bigger unit- light year or parsec?
6. If $x = at + bt^2$, where x is in metres and t in seconds, what are the units of a and b?
7. Write down the dimensional formula for Gravitational constant.
8. What is the dimensional formula for i) Pressure ii) Power iii) Density iv) Angle?
9. Give an example of a physical quantity which has neither unit nor dimension.
10. State the number of significant figures in i) 125 ii) 0.20 iii) 3750 iv) 8.27×10^{-11}
11. Round off to 3 significant figures: i) 20.46 m ii) 30.68 m iii) 30.55m.

CHEMISTRY

Q.1 Discuss the electronic concept of valency. Explain with example.

Q.2 Define the following:-

- a) Avogadro's constant
- b) Mole
- c) polyatomic ion
- d) atomicity

- e) pure substance
- f) atomic model
- g) relative mass
- h) absolute charge

Q.3 Discuss the discovery of neutron.

Q.4 What do you mean by law of constant proportion ? Explain with example.

BIOLOGY

REVISE CHAPTER CELL AND PREPARE FOR ORAL TEST

MATHS

1. Represent (i) $(A - B)'$ (ii) $(A \cap B)'$ (iii) $(A - B)$ and (iv) A' by Venn diagram .
2. If $\sin x = 2/3$, $\pi < x < \pi/2$ then find all other trigonometric functions.
3. Draw the graph of $f(x) = \sin x$.

AI

1. Explain different types of AI tools.
2. Differentiate between verbal and nonverbal communication with examples.
3. Explain different stress management technique.

PAINTING

Answer the questions of Chapter 2 & 3

P.W.

Prepare the Painting Portfolio Landscape for Water colour work, Object art Pencil Shading work and Gel pen work

PHYSICAL EDUCATION

1. What are the changing trends and career in Physical Education. ? Discuss.
2. What are the career option in Physical Education ?
3. What are the main objectives of Physical Education ?
4. What do you mean by Physical Education ?
5. What is the aim of Physical Education ?
