

# PM SHRI KENDRIRA VIDYALAYA VIJAYNARAYANAM

## WINTER BREAK HOMEWORK

CLASS. 9 B

### SUB- ENGLISH

1. Frame an exclusive with raising star of India pragnanandha. (Art integrated)
2. Complete verb forms in Workbook .(Homework)

### SUB- HINDI

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### SUB- MATHEMATICS

- 1- Prove S.A.S. , A.S.A.& S.S.S. theorem in your home work notebook. { on 24 dec 2023}
- 2- Solve exercise 7.1, 7.2 & 7.3 in your home work notebook. { from 26 dec 2023 to 29 dec 2023}
- 3- Revise chapter nu 5,6 & 7 as it is your PT 3 syllabus. { from 30 dec 2023 to 1 jan 2024}
- 4- Write what have you learned from Euclid's Definitions, Axioms and Postulates in your assignment copy. { on 2 jan 2024}

## SUB- SCIENCE

1. What are canal rays?
2. If an atom contains one electron and one proton, will it carry any charge or not?
3. On the basis of Thomson's model of an atom, explain how the atom is neutral as a whole.
4. On the basis of Rutherford's model of an atom which sub-atomic particle is present in the nucleus of an atom?
5. Draw a sketch of Bohr's model of an atom with three shells.
6. What do you think would be the observation if the  $\alpha$ -particle scattering experiment is carried out using a foil of metal other than gold?
7. Name the three sub-atomic particles of an atom.
8. Helium atom has an atomic mass of 4 u and two protons in its nucleus. How many neutrons does it have?
9. Write the distribution of electrons in Carbon and Sodium atoms.
10. If K and L shell of an atom is full then what would be the total number of electrons in the atom?
11. How will you find the valency of chlorine, sulphur and magnesium?
12. If number of electrons in an atom is 8 and number of protons is also 8, then
  - (i) what is the atomic number of the atom? and
  - (ii) what is the charge on the atom?
13. With the help of below table, find out the mass number of oxygen and sulphur atom.

Name of Element	Symbol	Atomic Number	Number of Protons	Number of Neutrons	Number of Electrons	Distribution of Electrons				Valency
						K	L	M	N	
Oxygen	O	8	8	8	8	2	6	-	-	2
Sulphur	S	16	16	16	16	2	8	6	-	2

14. For the symbol H, D and T tabulate three subatomic particles found in each of them.
15. Write the electronic configuration of any one pair of isotopes and isobars.

## SUB- AI

- 1) Write the difference between Artificial Intelligence, Machine learning, Artificial Neural Network.

**2) ART INTEGRATED PROJECT:**

**AI advanced techniques in TAMILNADU (Powerpoint Presentation- minimum 10 slides)**

**3) Student Portfolio (unit 3-Basic ICT skills (session1-3 &session4,5), PART B unit 2-AI Project cycle (session1-4& session5-8))**

**SUB- SST**

**In Holiday Home work Notebook write and learn the exercise solution of the lessons given below:**

**History:**

- 1. Nazism and Rise of Hitler.**

**Geography:**

- 1. Natural Vegetation and Wild Life.**

**Civics:**

- 1. Electorate Politics**

**Economics:**

- 1. Poverty as a Challenge**

**Map:**

**Mark and label the following in the outline map of India:**

- 1. Axis Power: (Japan, Germany, Italy)**
- 2. Allies Power: (United States of America, Britain, France, Russia)**

**(Lesson -Nazism and Rise of Hitler)**

**Project:**

**Make a project on the topic :**

**Natural Vegetation and Wild Life.**