GUESS QUESTION PAPER
Class IX
SUB-SCIENCE

M.M-75 **Time-3hrs**

General instructions:-

- The question paper carries two sections, A and B. You are two attempt both the sections.
- Question number 1 to 5 in section A and question number 21 to 23 in section B carries 1 mark each.
- Question number 6 to 10 in section A and question number 24 to 25 in section B carries 2 mark each.
- Question number 11 to 17 in section A and question number 26 to 29 in section B carries 3 mark each.
- Question number 18 to 20 in section A and question number 30 in section B carries 5 mark each.

SECTION –A

1. Which of the following solution will show "Tyndal effect"? Milk and copper sulphate solution.
2. Write the formula of Aluminium Chloride.
3. What will happen if the distance between two objects is doubled?
4. What is the audible range of frequency for average human ear?
5. Why valency of chlorine (Cl) is 1 and not 7?
6. Differentiate between mass and weight?
7. The mass no of an element is 23 and it contains 11 electrons. What is the number of protons and neutrons in it? Write the name of the element.
8. If 16gm of oxygen contains 1mole of oxygen atom. Calculate mass of 1 atom of oxygen.
9. What is reverberation? How it can be reduced?
10. Differentiate between isotopes and isobars?
11. A boy weighing 40kg carries a box weighing 20kg to the top of a building 15m high in 25sec. Calculate the power?
12. Complete the following table.

ELEMENTS	ATOMIC NUMBER	MASS NUMBER	ELECTRONS	PROTONS	NEUTRONS
Al	13	--	13	--	14
S	--	32	16	16	--
Ne	10	22	--	10	--

13. Define the following.
    (i) Time period.
    (ii) Frequency.
    (iii) Amplitude.
14. State the applications of ultra sound.

15. Derive the formula for the kinetic energy of a body.
16. (a) A sonar station pick up a return signal after 2sec, how far is the object.
    (b) State the applications of sonar.
17. Which separation technique will you apply for the separation of following?
    (i) Butter from curd.
    (ii) Fine mud suspended in water.
    (iii) Different pigment from an extract of flower petal.
18. Explain Rutherford α particle scattering experiment. State its drawbacks.
19. Prove that the value of "g" on Moon is $1/6^{th}$ that on the earth.
20. What type of mixture is separated by sublimation process? Give example and also draw the diagram of the apparatus used in the process.

SECTION- B

21. Which tissue makes up the husk of the coconuts?
22. What is immunization?
23. Where are protein synthesized inside the cell?
24. Which organelle is called the Power house of the cell and why?
25. Give the name of one HYV of
    (i) Exotic breed of cow.
    (ii) Breed of poultry.
26. Differentiate between acute and chronic disease.
27. Differentiate between mixed cropping and inter cropping.
28. State the function of the following.
    (i) Nucleus.
    (ii) Lysosomes.
    (iii) Golgi body.
29. Name the causal organism of following.
    (i) Kala-azar.
    (ii) Sleeping sickness
    (iii) Peptic Ulcer.
    (iv) Malaria
    (v) Typhoid.
30. Draw a well labelled diagram of neuron.

ALL THE BEST

PREPARED BY
MS. RUBEE MURDINGA
TGT, SCIENCE
JNV, DEOGARH, ORISSA