

HOLY CROSS MATRIC HR.SEC.SCHOOL

SATHUVACHARI, VELLORE-09.

REVISION TEST

Std.:X

SCIENCE

PHYSICAL SCIENCE

Marks:25

I Answer the following questions:

5x2=10

1. State Newton's Second law.
2. Why are traffic signals red in colour?
3. Distinguish between ideal gas and real gas?
4. Why is tungsten metal used in bulbs but not in fuse wires?
5. Mention two cases in which there is no Doppler effect in sound.

II Answer in brief:

2x4=8

6. Compare the properties of alpha, beta and gamma radiations.
7. i) Calculate the % of each element in calcium carbonate.
ii) Calculate the % of oxygen in $\text{Al}_2(\text{SO}_4)_3$.

II Answer in detail

1x7=7

8. i) A solution is prepared by dissolving 45g of sugar in 180g of water. Calculate the mass % of solute.
ii) Give the balanced chemical equation of the following reactions:
 - a. Neutralization of NaOH with ethanoic acid.
 - b. Evolution of carbon di oxide by the action of ethanoic acid with NaHCO_3 .
 - c. Oxidation of ethanol by acidified potassium dichromate.
 - d. Combustion of ethanol.

BIOLOGICAL SCIENCE

MARKS :25

TIME :1hr

I. Answer in short :-

(5×2=10)

1. Who discovered Rh factor ? Why was it named so?
2. Define stimulus
3. What are synthetic auxins ? Give examples
4. What are okazaki fragments ?
5. Define genetic engineering

II. Answer in paragraph :-

(2×4=8)

6. Explain the structure of chromosome
7. How can you determine the age of fossils

III. Long answer question:-

(1×7=7)

8. With a neat labelled diagram explain the structure of a neuron.

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All the best!