

AMRITA VIDYALAYAM

HALF YEARLY EXAMINATION 2017 - '18

Class : VI

Marks : 80

Time : 2½ hrs

SCIENCE

GENERAL INSTRUCTIONS :

1. *This question paper consists of 3 sections, viz. Physics, Chemistry and Biology.*
2. *Each section should be answered separately.*
3. *All questions are compulsory.*
4. *Write neatly and legibly.*

PHYSICS

I. Fill in the blanks. 5

1. A quantity that can be measured is called a _____ quantity.
2. A dry cell is a source of _____ energy.
3. A bullet shot from a gun is an example for _____ motion.
4. _____ provides a path for the flow of electric current in an electric circuit.
5. 1 metric ton = _____ kg.

II. Answer in one or two sentences. 10

1. A crow is sitting on a grazing cow. Is it in a state of rest or motion with respect to the cow? Justify.
2. As a safety measure, you are advised to wear rubber slippers when handling electrical appliances. Why?
3. A bulb does not glow if the filament is broken. Why?
4. What are the two inventions that brought about revolutions in the field of transport?
5. Draw the symbols of the following.
a) Bulb b) A battery

III. Answer in two or three sentences.

12

1. Never use an appliance with frayed wires. What will happen if you accidentally touch a bare part of wire with your hands? Explain.
2. Identify the type of motion in the following situations.
 - a) Motion of the blades of a fan.
 - b) An apple falling from a tree.
 - c) Pendulum of clock.
3. Why are only solar cells used as a source of power in satellite?
4. Give an example each of a situation where
 - a) accurate measurement is necessary.
 - b) accurate measurement is not necessary and only estimation is required.Give reason.

CHEMISTRY

I. Choose the correct answer.

4

1. Which of the following is not an element?
(oxygen, gold, water, hydrogen)
2. Pure water at sea level boils at _____.
(150°C, 100°C, 50°C, 10°C)
3. Which of the following is not a property of nylon?
(Light-weight, strong, absorbs water, wrinkle-free)
4. Synthetic fibres are obtained from _____.
(plants, animals, rubber, petroleum)

II. Answer in one or two sentences.

4

1. What is shearing?
2. What is the difference between mixtures and pure substances?
3. Solids have definite shape and volume. Why?
4. What is a compound? Give example.

III. Answer in short.

10

1. Write any difference between homogeneous mixture and

heterogeneous mixture.

2. Write any two advantages and two disadvantages of synthetic fibres.
3. A wood piece can float on water but a small iron nail will sink in water. Why?
4. Define solution with example.
5. Write the elements in the following compounds.
 - a) Water
 - b) Common salt

IV. Answer in long.

9

1. What is sericulture? Why it comes under the protest from animal rights activists ?
2. Write difference between solid, liquid and gas.
3. How can you separate the following mixtures? Write the reason why you chose the method, for each.
 - a) Chaff and rice
 - b) Sand and water
 - c) Water from salt solution

BIOLOGY

I. Fill in the blanks.

4

1. _____ is a disease caused by protein deficiency in children.
2. The first link in all food chains is _____.
3. The process of removal of waste products from the body is called _____.
4. _____ are small animals that depend on other living animals for their food.

II. Answer in one or two sentences.

10

1. How is growth in living things differ from non-living things?
2. What are the functions of food?
3. Mention two cooking methods that destroy the nutrients in the food.
4. In what way is a scavenger useful to the environment?
5. People who eat seafood do not suffer from Goitre. Give

reasons.

III. Answer in two or three sentences.

12

1. Water does not provide nutrients, yet is an important component of food. Explain.
2. Plants take in oxygen and give out carbon dioxide during respiration all time. Why do we then say plants supply oxygen to the air?
3. List three ways by which living things reproduce by giving one example each.
4. What is roughage? Write its importance in our diet?