JIYA LAL MITTAL DAV PUBLIC SCHOOL

GRADE – VI SA-I (SEPT, 2015)

SUBJECT – SCIENCE

TIME: 3hrs. M.M-90

General Instructions:

1. **All questions are compulsory.**
2. **Draw neat and clean diagrams wherever necessary.**
3. **Internal Choice in part-E only.**

(A) Multiple Choice Questions. Each carry 1 mark.

1) Which of these an invertebrate?
   (a) Goldfish (b) Sparrow
   (c) Cobra (d) Ant

2) Vermicomposting is done by:
   (a) Fungus (b) Bacteria
   (c) Worms (d) Animals

3) Which is immiscible in water?
   (a) Sugar (b) Oil
   (c) Salt (d) Lemon Juice

4) Winnowing can be used for which of the mixture to be separated?
   (a) Cream from milk (b) Saw dust from Urad Dal
   (c) Salt from sea water (d) Butter from cream

5) S.I unit of length is:
   (a) Cm (b) km
   (c) m (d)mm

6) Motion of Earth around sun is:
   (a) Oscillatory motion (c) Curvilinear motion
   (c) Rectilinear motion (d) Revolution motion

(B) Very short answer type questions. Each carry 1 mark.

1) Give two examples of decomposers.
2) Define diffusion.
3) Define sublimation
4) Name a plants with prop roots.
5) What are xerophytes? Give two examples.

6) What is pollination?
7) What is the role of an electric switch?
8) Give the direction of flow of electric current.
9) Classify two main systems in a plant.

(C) Short answer type-I questions. Each carry 2 marks.

1) Name different types of modified stems.
2) What do you mean by vertebrates? Give two examples.
3) 'All living things respond to external stimuli'. Justify it with two examples.
4) When do we consider an object to be in motion?
5) What is meant by immiscible liquids? Give two examples of such liquids.
6) How is decomposition of dead animals useful?
7) Why polythenes are considered to be the major threat to our environment?
8) What is the function of metallic strips in a torch?
9) Name two types of leaf modifications giving one example for each type.

(D) Short answer type-II questions. Each carry 3 marks.

1) Why should we segregate different types of wastes? Give advantage of a twin system.
2) Define: Solubility, transparency, saturated solution.
3) What is difference between heterogeneous and homogeneous mixtures? Give two examples of each type.
4) State any three effects of force.
5) List four important characteristics of living thing.
6) What is a leaf? Describe the various parts of a leaf.
7) What do you understand by the term 'electric circuit'? If the bulb in a closed circuit doesn't glow, what could it indicate?
8) How is the balance maintained between O_2 and CO_2 in our environment?
9) (a) Why does the size of naphthalene balls reduce if it is kept in open?
   (b) What is winnowing? Give an example of a mixture whose components can be separated by this method.

(E) Long answer type questions. Each carry 5 marks.

1) (a) Differentiate between pure substances and a mixture. Give two examples of each.
(b) What is crystallisation? Name any three substances which can be purified by this technique.

Or

(a) Define: Sedimentation, Decantation, and Evaporation.
(b) Why do shopkeepers sprinkle water around their shops if the area is not commented?

2) (a)Why does a measurement need both a 'number' and a 'unit' for its complete specification?
(b) Explain the difference between rest and motion. Give one example of each.

Or

What are the precautions to be followed when a metre scale is being used for measuring a given length?

3) Why do you think animals are important to us? Justify with suitable examples.

Or

(a) Give difference between vertebrates and invertebrates with two examples of each.
(b) What are Perennials, Frugivores, Saprophyte? Also give one example of each.

4) Draw a well labeled diagram of sublimation process.

Or

(a) What is food chain?
(b) Define root system. Give its two functions.
(c) Give two types of stem modifications giving one example of each.

5) Show the relationship between biotic and abiotic components of the environment with the help of a diagram.

Or

(a) Give difference between Decomposers and Scavengers?
(b) List the four ways to conserve water at home.

6)
(a) Why do buffaloes cool themselves in water in during summer?
(b) How do aquatic animals breathe in water?
(c) Why do solids, have a fixed shape and volume.

Or

(a) Give differences between periodic and non-periodic motion by giving suitable examples.
(b) Give difference between herbs, shrubs, trees (any three).