**Jiya Lal Mittal D.A.V Public School**

**Subject- Science Grade- 6th**

**SA1 Time – 3 hrs M.M- 90**

**General instructions –**

1. **All questions are compulsory .**
2. **Do neat and clean work .**
3. **Internal choice in part- E only** .

**A)MCQ’s – (6X1=6)**

**1. An electric circuit always has –**

a)Source of electric current

b) Only a switch / key .

c) Only some conductors .

d) a source of current , some conductors and a switch .

**2. Which of these is an invertebrate ?**

a) gold fish b) sparrow

c) cobra d) Ant

**3. Vermicomposting is done by –**

a) Fungus b) Bacteria

c) Worms d) animals

**4. The reproductive part of a plant –**

a) Leaf b) fruit

c) Flower d) Stem

**5. Expanded flat part of the leaf –**

a) Tip b) Lamina

c) Midrib d) Leaf tip

**6. A mixture of oil and water is separated by –**

a) Filtration b) Seiving

c) Centrifugation d) separating funnel

**B)Very short type question – (9X1=9)**

1. What is threshing ?
2. Which component of air is essential for the process of photosynthesis ?
3. When is an object considered to be in motion ?
4. What is centrifugation ?
5. Name a plant that has stem modified for photosynthesis and leaves modified for protection into spines ?
6. Name the flower which bloom with sunrise and close after sunset ?
7. What do you mean by parasitic roots ?
8. How can a mixture of pebbles and wheat grain be separated ?
9. Name the plants whose life cycle is of one season ?

**C) Short answer type questions – (9X2=18 )**

1. What is the role of an electric switch ?
2. What do you understand by classification ?
3. What is winnowing ? Give an example of a mixture whose components can be separated by this method ?
4. What is meant by an electric device ?
5. Why polythenes are considered to be a major threat to our environment ?
6. What is the saturated solution?
7. What is the function of metallic strip used in a torch ?
8. Why do gases diffuse very readily ?
9. What are consumers ? Why are they called so ?

**D) Short answer type II questions- ( 9X3=27)**

1. What is a biodegradable and non- biodegradable waste ? Give examples .
2. Differentiate between solid , Liquid and gas?
3. Define – a) Sedimentation

 b) Decantation

1. State three effects of a force ?
2. List the important characteristics of living things ?
3. What is the role of spines , the modified leaves ?
4. Differentiates between vibratory and oscillatory motion ?
5. What do you mean by parasites . Name one plant and one animal parasite ?
6. What is sublimation ? Name any two substances which sublime on heating ?

**E)Long answer type question – (6X5=30)**

1. Distinguish between –
2. Autotrops and Heterotrops
3. Decomposes and Scavengers

OR

1. Why does the size of naphthalene balls reduce if it is kept in open ?
2. What is sieving . When do we use their method ?

2.a)Give the methods to separate the followings-

 (i) Saw dust from Urad dal

 (ii) Iodine from sugar

 (iii) Wheat grains from husk .

b)What is crystallization ? Name any three substances which can be purified using their technique. Or

 a) Define environment. Give its components.

 b) What do you understand by vermicomposting.

3.a)How do aquatic animals breathe in water opaque. Give examples .

 b) What are transparent, translucent and opaque objects? Give examples.

OR

a)Name the following –

 (i)Life span of bacteria .

 (ii) Place from where the leaf comes out of stem .

 (iii) Smallest structural and functional unit of life.

b)Define –

 (i) Shrubs (ii) Xerophytes

4.a)Give differences between vertebrates and

 invertebrates with examples.

 b) ‘All living things respond to external stimuli . Justify it

 with two examples.

OR

 a) What is a flower . Describe the structure of a flower .

 b) Name any two types of leaf modifications giving one example for each type .

5.(i) Define – a) Solubility

 b) Transparent materials .

 c) Natural materials.

(ii) Diffusion does not takes place in solids ? Why .

OR

 How is a tap root different from a fibrous root . Explain it

 with an example .

6. Define root system . State four functions of the roots .

OR

a)Name – (i) One plant that has hanging roots .

 (ii) different parts of a flower.

 (iii) Transfer of pollen grains from style to stigma of

 flower .

 b)Explain in brief , the working of an electric touch with diagram.