

**DELHI PUBLIC SCHOOL, JODHPUR**

*Summative Assessment – I (2013-14)*

Class – VII Science

**Section A**

Q1. Choose the correct option in each of the following and write it in your answer sheet. (1x 20=20)

i) Bile helps in the breakdown of-

- (a) Starch (b) Protein (c) Fats (d) Glucose

ii) An anemometer is used to measure-

- (a) Humidity (b) Wind speed  
(c) Rainfall (d) Temperature

iii) Which of the following is an example of a physical change?

- (a) Burning (b) Rusting (c) Evaporation (d)

Photosynthesis

iv) Which weather condition best describes a tropical region?

- (a) Hot and wet (b) Hot and dry (c) Cold and wet (d) Cold and dry

v) Absorption of digested food takes place in the \_\_\_\_\_.

- (a) Stomach (b) Large intestine  
(c) Small intestine (d) Anus

vi) An example of saprotroph is -

- (a) Cuscuta (b) Mushroom (c) Sunflower (d) Lichen

(vii) The caterpillar secretes fibre made up of-

- (a) Cellulose (b) Fats (c) Proteins (d)

Vitamins

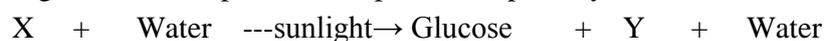
(viii) The effect of formic acid on our hand can be neutralized by rubbing -

- (a) Organic matter (b) Slaked lime (c) Baking soda (d) Vinegar

ix) When an iron nail is dipped in copper sulphate solution, the blue colour of the solution changes to green due to the formation of-

- (a) Calcium carbonate (b) Iron sulphate  
(c) Iron oxide (d) Magnesium oxide

x) The equation given below represents the process of photosynthesis-



Which of the following represents X and Y in the given equation ?

- a) X- oxygen Y- Carbon dioxide (b) X – Carbon dioxide Y – Oxygen  
c) X –Carbon Y -Hydrogen (d) X – Oxygen Y - Hydrogen

xi) Observe the given figure –



A few drops of phenolphthalein are added to each of the solutions. What change in colour is observed in the basic solution ?

- (a) Pink (b) Red (c) Blue (d) Remains colourless

xii) The best top soil for growing plants is –

- (a) Sandy Rocks (b) Clayey (c) Loamy (d)

- xiii) When china rose solution is added to lime water it turns –  
 (a) Red (b) Green (c) Milky (d) No change
- xiv) Pure crystals of some substance can be obtained from their saturated solution by a process called –  
 (a) Neutralization (b) Crystallization (c) Decomposition (d) Displacement
- xv) In a pressure kerosene stove –  
 I – We pump kerosene and convert it into vapours.  
 II – The vapours are then ignited.  
 Which of the following is true about the above statements ?  
 (a) I is a chemical change; II is a physical change  
 (b) I is a physical change; II is a chemical change  
 (c) Both I and II are physical  
 (d) Both I and II are chemical
- xvi) Roofs of houses blow away whenever there are strong winds. It is due to –  
 (a) Constant air pressure above roof and inside the house.  
 (b) High air pressure above the roof and low air pressure inside the house.  
 (c) Low air pressure above the roof and high air pressure inside the house.  
 (d) Both (a) and (b)
- xvii) Tropical rainforests supports wide variety of plants and animals due to continuous –  
 (a) Cold (b) Warmth and rain  
 (c) Hot weather (d) Dry period
- xviii) Uneven heating on the earth is the main cause of –  
 (a) Wind movement (b) Earthquake  
 (c) Green House Effect (d) Cloud formation
- xix) Deforestation can lead to increase in –  
 (a) Soil erosion (b) Soil fertility  
 (c) Soil improvement (d) All of the above
- xx) Given are the various steps involved in the process of nutrition in animals ;  
 (i) Assimilation (ii) Ingestion (iii) Absorption (iv) Digestion (v) Egestion  
 Which of the following represent the correct order of steps ?  
 (a) iii, ii, iv, v, i (b) iii, i, iv, v, ii (c) ii, iv, iii, i, v (d) iii, iv,  
 ii, v, i

### Section B

**Q 2. Mark true or false for the following statements. [1 x 5 = 5]**

- a) Green pigment chlorophyll helps leaves to capture sunlight.  
 b) Digestion of starch starts in the stomach.  
 c) A cold steel spoon is dipped in a cup of a hot milk, it transfers heat to its other end by the process of conduction.  
 d) Tooth decay is caused by the presence of a base.

**Q 3. Give one word for the following – [1 x 5 = 5]**

- a) The process of depositing a layer of zinc on iron.  
 b) Movement of some birds from colder region to warmer region during winters.  
 c) The process of taking out threads from the cocoon for use as silk.  
 d) A change in which one or more new substances are formed.

- e) An animal that has developed sticky pads on its feet.
- Q 4.** Name the structures through which carbon dioxide from air is taken into the leaves. Write one more function of these in plants. [ 2 ]
- Q 5.** What is the mode of nutrition in the following ? Also define them. [2 + 2]  
 (a) Fungi (b) Cuscuta
- Q 6.** Give reasons for the following – [2 x 4 = 8]  
 a) Land breeze blows during the night in coastal regions.  
 b) Metallic pan for cooking has a plastic or wooden handle.  
 c) Sometimes organic matter is added to the soil.  
 d) Roof of the houses are blown up when high speed winds blow over it.  
 e) Rusting of iron objects is faster in coastal areas than in deserts.
- Q 7.** Explain why holes are made in hanging banners and hoardings. [ 3 ]
- Q 8.** Differentiate between the following. [3 x 2 = 6]  
 a) Acids and Bases  
 b) Clinical and Laboratory thermometer  
 c) Weather and Climate
- Q 9.** Write an activity to show that high speed winds are accompanied by reduced air pressure. [ 3 ]
- Q 10.** Name the product(s) of digestion of the following food components in our body. [ 3 ]  
 (a) Carbohydrates (b) Proteins (c) Fats
- Q 11.** (a) Solutions A, B, C and D are tested with the following indicators. [2 + 3]  
 Observe the following table and tell the nature of the solutions.

Solution	Indicator	Colour change	Nature
A	Red litmus	Blue	?
B	Blue litmus	Red	?
C	Turmeric	Red	?
D	China rose	Red	?

- (b) What happens when an acid and a base react with each other ? Give an example to show such a reaction.
- Q 12.** Complete the following reactions – [ 4 ]  
 a) Iron + Oxygen + Water → \_\_\_\_\_  
 b) Acetic acid + Sodium bicarbonate → \_\_\_\_\_ + \_\_\_\_\_  
 c) Magnesium oxide + Water → \_\_\_\_\_  
 d) Carbon dioxide + Calcium hydroxide → \_\_\_\_\_ + \_\_\_\_\_
- Q 13.** Explain the various layers of soil profile with the help of a neat labelled diagram. [ 4 ]
- Q 14.** Write down one adaptive feature of the following animals. (4) [ 4 ]  
 Toucan b) An Indian Elephant c) Penguin d) Lion tailed macaque  
 Or  
 Explain in four points the adaptive features of polar bear to its climate.
- Q 15.** Name the acid / base present in the following : [ 4 ]  
 (a) Ant's sting (b) Soap (c) Tamarind (d) Lime water
- Q 16.** Observe the following diagram and answer the questions that follow – [2+2+1]



- (a) What happens in the parts a and b ? Explain.
- (b) Name any two glands associated with the digestive system.
- (c) In which part of the digestive system does absorption of food takes place ?

**OR**

Explain the process of feeding and digestion in amoeba with the help of a labelled diagram.

**Q 17.** *Explain in five points the process of obtaining silk from silk moth. (5)*

[ 5 ]

*Or*

*Draw a well labelled diagram to show the life history of silk moth.*

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