



ITL PUBLIC SCHOOL

SUMMATIVE ASSESSMENT- I (2015-16)

SET- A1 (Answer key)

DATE: 28.09.2015

SUBJECT: Science

CLASS: IV- _____

1x10=10

Q.1 Choose the correct option-

- i) _____ method is used to keep pickles safe from germs.
a) Boiling **b) Salting** c) Freezing d) Canning
- ii) Which of the clothes can be attacked by insects?
a) Cotton b) Linen c) Jute **d) Woollen**
- iii) Which of these is found in hilly areas?
a) Duckweed b) Coconut **c) Spruce** d) Water lily
- iv) The structure that attaches the leaf to the stem-
a) Starch **b) Stalk** c) Stick d) Spine
- v) Which of these is an evergreen tree?
a) Sugarcane b) Peepal c) Neem d) Banyan
- vi) Which of these float on the surface of water?
a) Pondweed b) Lotus **c) Duckweed** d) Pitcher Plant
- vii) Which of these is not good for teeth?
a) Cheese b) Milk c) Curd **d) Chocolates**
- viii) Chisel – shaped teeth that help us to bite the food-
a) Premolars **b) Incisors** c) Canines d) Molars
- ix) What should be used to put out fire due to electrical gadgets?
a) Water b) Oil **c) sand** d) blanket
- x) Which of these is not used for crossing roads?
a) Zebra crossing b) Subway **c) Footpath** d) Foot over bridge

Q.2 Give one word answer for the following-

1x5=5

- a) The process of cleaning clothes using chemicals- **Dry cleaning**
b) A festival celebrated in India to promote planting of trees- **Vana Mahotsav**
c) The trees which shed their leaves in winters- **Deciduous trees**
d) A thread used to remove food particles stuck between the teeth- **Floss**
e) A dangerous disease caused due to animal bite- **Rabies**

Q.3 Define the terms-

1x5=5

- a) Food Preservation- The process of **keeping food safe from germs** for a long time (1)
b) Bleaching- The process of **removing green colour or chlorophyll from the leaf** (1)
c) Adaptation- the process in which **living things develop special features**(0.5) in order **to survive**(0.5)
d) Conifers- The **plants found on hills**(0.5) and that **bear cones**(0.5)
e) Microbes- **tiny living things**(0.5) that can be **seen by a microscope**(0.5) only.

Q.4 Give reason-

1x5=5

- a) Priya's silk lehnga had tiny holes whereas her polyester saree was safe.
Reason- **Silk is natural fibre that was attacked by insects whereas polyester is synthetic.**
- b) Croton leaf has chlorophyll but it appears dark red in colour.
Reason- **As it has a dark red pigment which hides green colour.**
- c) Mangroves have breathing roots.
Reason- **As the soil is sticky and clayey with lot of water. Roots grow out to breathe**
- d) Dentists advise children to bite and chew raw fruits and vegetables.
Reason- **It helps the teeth to come out easily and massages the gums**
- e) In case of snake bite, a tight bandage should be tied between the wound and the heart.
Reason- **To prevent the spread of poison in the body.**

Q.5 Correct the given statements and then rewrite them-

1x5=5

- a) **Papad** can be preserved by boiling it. **Milk/ boiling OR papad/ drying**
- b) The lower surface of the leaf contains tiny holes called veins. **Stomata**
- c) Clove is a medicinal plant used to cure stomach ache. **Clove/tooth ache or Mint/stomach ache**
- d) Typhoid is caused by virus. **Typhoid/bacteria or polio/virus**
- e) Head of a person who has fainted should be kept **higher** than his rest of the body. **lower**

Q.6 Answer in short- (2 marks each)

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a) How do leaves prepare food? What is this process known as?

Ans. Green leaves prepare food using CO_2 from the air(0.5), water and minerals(0.5) in the presence of sunlight(0.5). This is called photosynthesis(0.5).

b) "The extra food prepared by the leaves is stored in the form of starch". Name 2 leaves and 2 roots which store food.

Ans. Leaves- spinach, lettuce, cabbage, mint (any 2 0.5+0.5)

Roots- carrot, turnip, radish(any 2 0.5+0.5)

c) How is cactus plant able to survive in deserts?

Ans. Leaves reduced to spine to prevent water loss. Stem green and fleshy. (2 points 1+1)

d) Many places in India are facing a problem of floods or flash floods. Which human action is responsible for this? What value do you learn from it?

Ans. Deforestation(1). We should not cut trees.(1)

e) The pitcher plant has chlorophyll. So, it can prepare its own food. Then why is it carnivorous in nature?

Ans. it grows in a soil that is poor in minerals. So it traps insects for nutrition.(2)

f) Differentiate between temporary and permanent set of teeth? (any 2 points)

Ans Temporary Teeth Permanent Teeth

a) First set of teeth a) erupt after the milk teeth fall out.(1)

b) 20 in no. b) 32 in no.(1)

g) "Most microbes cause diseases but there are some useful microbes also". Justify the statement with two examples.

Ans. 1. Yeast is used to make breads and cakes(1)

2. Bacteria converts milk into curd.(1)

h) What do you mean by plaque? How does it lead to tooth decay?

The rotting food along with germs forms a yellow sticky layer on teeth (1) It harms the enamel and forms cavities. This leads to tooth decay. (1)

i) What first aid would you give in the given situation?

Ans. 1. Remove the sting with the help of tweezers.(1)



2. paste of baking soda and cold cream / a soft pad soaked with ammonia / calamine lotion for relieving pain (1)

Q.7 Answer in detail- (3 marks each)

12

a) i) What do you mean by food chain?

Ans. The flow of energy in nature in the form of food.(1)

ii) Explain how do plants and animals depend on each other for their survival?

Ans. Plants depend on animals for CO_2 / minerals/ pollination (any 2 for 1 mark)

Animals depend on plants for food, oxygen, fibre etc (any 2 for 1 mark)

b) "Tape grass is an underwater plant i.e. it remains completely submerged in water".

1. Mention its two special features that help it to live underwater.

Ans. 1. Leaves are long, ribbon-like (1). 2. Stomata absent, they breathe through stem. (1)

2. Why are such plants grown in aquariums?

Ans. They use CO_2 from the water and give out oxygen. Thus help to keep aquarium clean. (1)

c) i) Write any two safety rules that should be followed in kitchen to prevent fire.

Ans. Wear cotton clothes/do not store inflammable substances/turn-off the gas stove (1M for any 2 pts)

ii) What first aid would you administer in case a person's clothes catch fire? Why?

Ans. Roll him in a blanket(1) or thick cloth to cut-off the air supply and put out the fire.(1)

d) Look at the picture showing three layers of a tooth and identify A, B and C. Write one special feature of each layer.

Ans. A- Enamel (0.5)- it is the hardest substance in human body.(0.5)

B- Dentine(0.5) – Bone-like middle layer(0.5)

C- Pulp(0.5)- It is a soft layer with blood vessels and nerves(0.5)

