



ITL PUBLIC SCHOOL

SESSION 2015 -2016

SUMMATIVE ASSESSMENT- I SET- A2(Answer key)

DATE: 18.09.2015

SUBJECT: Science

CLASS: V- _____

1x1010

Q.1 Choose the correct option-

i) What does the following sign indicate?

- a) One Way b) No Parking c) No Horn **d) No Stopping**

ii) The point under the ground where the disturbance resulting in an earthquake first occurs.

- a) Epicentre **b) Focus** c) Crater d) Vent

iii) Which of these reproduces through its stem?

- a) Potato** b) Turnip c) Coconut d) Dahlia

iv) Which of these is a kharif crop?

- a) Gram **b) Cotton** c) Mustard d) Wheat

v) These animals have horny scales that prevent water loss from their bodies-

- a) Reptiles** b) Fish c) Amphibians d) Birds

vi) Which of these animals have sharp front teeth to gnaw their food?

- a) Cows b) Goats **c) Squirrels** d) Bears

vii) This layer of atmosphere contains ozone gas.

- a) Exosphere b) Troposphere c) Ionosphere **d) Stratosphere**

viii) Which of the following does not make use of air pressure?

- a) Straw **b) Pencil** c) Dropper d) Syringe

ix) A radio converts electrical energy into _____.

- a) Light energy b) Muscular energy **c) Sound energy** d) Heat energy

x) Which of these is a complex machine?

- a) Bicycle** b) Stapler c) Crowbar d) Screwdriver

Q.2 Give one word answer for the following-

1x5=5

- a) These help in regulating traffic and reducing the risk of accidents- **Traffic signs or symbols**
b) The practice of growing crops on a large scale for food or other purposes- **Agriculture**
c) The tiny holes through which insects breathe- **Spiracles**
d) A major component of air that does not support burning- **Nitrogen**
e) The ability or capacity to do work- **Energy**

Q.3 Define the terms-

1x5=5

- a) Seismograph- **An instrument that measures the intensity, duration and direction of an earthquake.**
b) Seed Dispersal-**The process by which seeds are scattered away from the mother plant.**
c) Migration- **The mass movement of animals over large distances due to shortage of food, cold weather or to breed.**
d) Chlorination- **The process in which chlorine is added to purify the water or to kill germs.**
e) Simple Machines- **A device or a tool that makes our work easier, faster and more convenient.**

Q.4 Give reason-

1x5=5

a) We should move to an open area in case of an earthquake.

Reason-**As building may fall and we may get trapped underneath. (1)**

b) Farmers use insecticides and pesticides in the fields.

Reason- **To protect the crops from insects and pests like locusts and rats (1)**

c) Frogs swallow their prey in one piece.

Reason- **Because they have teeth only in upper jaw and are not very good at chewing.(1)**

d) Filtration is better than sedimentation and decantation.

Reason- **As it is faster and can even remove the floating impurities.(1)**

e) It is easier to roll down than to roll up an object on an inclined plane.

Reason- **As when we roll down we are aided by the gravity, while in case of rolling up we have to overcome the gravity.(1)**

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

1x5=5

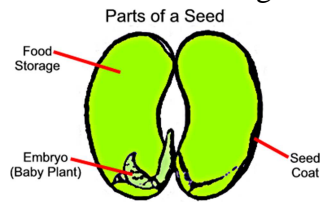
- a) Cyclists should remain on the right side of the road. **Cyclists/left or fast moving traffic/right**
- b) **Jowar** grows in moist, well-drained soil of hill slopes. **Tea**
- c) The home or natural surroundings of an animal is called its **den. Habitat**
- d) **Salt** is added to the water to increase the rate of sedimentation. **Alum**
- e) A **wheel and axle** has two inclined planes put together. **Wedge**

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

2x9=18

- a) Draw and label a neat diagram showing main parts of a seed.

Ans.



0.5 for each labeling and 0.5 for diagram

- b) Rahul found a 'cocklebur' seed and a 'dandelion' seed in his garden. He was wondering how did they reach their. If you were his friend how would you explain to him the dispersal of these two seeds? Mention one special feature of each seed.

Ans. Cocklebur seed dispersed by animals (0.5). it has spines which help it to stick to the animal skin(0.5) Dandelion is dispersed by wind(0.5). it has hair which act like little parachutes.(0.5)

- c) Give one example of each-

- i) A plant that reproduces through its leaf- **Bryophyllum(1) -0.5 for wrong spelling**
- ii) A plant that reproduces through spores- **Fern/mosses/ fungi (1) -0.5 for wrong spelling**

- d) Many species of animals like dodo, tigers etc. have either become extinct or are endangered due to certain human activities. Mention any two of these activities. What value do you learn from this?

Ans. Hunting and poaching of animals/global warming/deforestation/wrong farm practices.(any2for 1M) Value- we should not kill animals for their body parts and try to save them.(1)

- e) Name any two animals that have hard shell as a body covering. How is the shell important for these animals?
- Ans. Tortoise and snails have hard shells(1). Hard shell protects from enemies(0.5) and prevents their bodies from drying out(0.5)**

- f) How do the limbs of a bird help in movement?

Ans.1. The forelimbs of birds are modified into wings which help in flying.(1)

2. The hind limbs help them to walk, hop, run or perch. (1)

- g) How is atmosphere useful for us? (Mention 2 points)

Ans. 1. It helps in maintaining the right temperature for the survival of life/It protects us from the falling meteoroids./ It has ozone that protects us from ultraviolet rays of the Sun. (any 2 pts for 2 marks)

- h) Write one use of each- i) Argon ii) carbon dioxide

Ans. Argon- used to fill in electric bulb. Carbon dioxide- used by plants for photosynthesis (1 M for each)

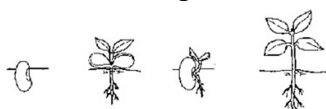
- i) If a person is standing at a place holding a heavy bag, is he doing work? Justify your answer with reference to "work" according to Science.

Ans. No (0.5). As work is said to be done only when an object changes position in the direction of the force applied.(1.5)

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

12

- a) Look at the picture carefully and answer the questions that follow.



- i) Soham has drawn the different stages of germination as shown above. Are they drawn in correct order? If not, then help him arrange these stages in correct order.

Ans. No. 1, 3, 2, 4. (1)

- ii) Describe the different stages of germination. (Each stage 0.5 M)

Ans. 1. The seed germinates when it gets water, air and warmth. 2. the seed coat splits and roots start growing upwards.

3. Soon the shoot develops in upward direction.
4. the leaves appear and the cotyledons start drying up.

b) Explain how is fish able to swim in water?

Ans. A fish can swim in water with the help of its fins.

1. The paired fins help in moving forward (1)
2. The unpaired fins help to maintain balance (1)
3. The tail fin helps to change direction. (1)

c) i) Name two methods used to separate soluble impurities from water.

Ans. Evaporation and distillation (0.5+0.5)

ii) Pinky saw her mother preparing tea. She put water, milk, sugar and tea leaves in the pan and then poured the tea into a cup through a sieve. She observed that the tea leaves were collected on the sieve but there was no sugar in it. Why?

Ans. Tea leaves are insoluble whereas sugar is soluble in water. (1)

iii) Water need not be distilled before drinking.

Ans. As many impurities like minerals present in water are not harmful for us./ Distillation removes even the useful minerals from the water. (1)

d) i) A 'nutcracker' is a lever with three main parts as shown in the picture. Identify A, B and C and mention the class of the lever.



Ans. A- Effort , B- Load, C- Fulcrum. It is a lever of second class (0.5 for each answer)

ii) A single fixed pulley can be considered as "first class lever". Justify the statement with the help of a neat diagram.

Ans. As first class lever has fulcrum in the middle of load and effort. (1)

