

Science Olympiad Level 4

Sections	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Total
Marks obtained											

General Instructions:

1. Duration of the exam is one hour.
2. The exam should be answered using pencil on the question paper itself.
3. Please read the questions carefully before answering them.
4. Fill in your details on this page before the exam begins.

Student Details:

Name _____

Std _____

Honour Code:

I pledge that I will not copy or take help from my friends/teachers while answering questions during this exam.

Signature/Name _____

Total Marks: 50

Q1. Cross the odd one out.

(4 mks)

1. Insoluble in water – sand, sawdust, salt, iron filings, plastic bits
2. Alimentary canal – oesophagus, stomach, lungs, small intestine, large intestine
3. Synthetic fibres – rayon, polyester, terylene, nylon, silk
4. Deciduous trees – peepal, banyan, neem, pine, gulmohar

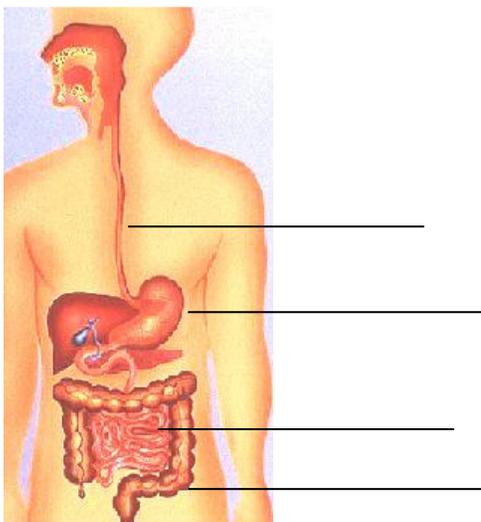
Q2. Match the following.

(5 mks)

1. Sandy soil	Soil good for growing tea and coffee
2. Clayey soil	Soil that is very fertile and has lots of air and water
3. Loamy soil	Soil good for growing rice and wheat
4. Red soil	Soil that is very dry and has hot air
5. Brown soil	Soil that has a lot of water but no air in it

Q3. Label the Alimentary canal.

(2 mks)



Q4. Answer the questions based on facts you have learnt? (9 mks)

1. What are incisors? What are they used for?

2. How do we get linen fibre?

3. Why can't we use only mud, leaves, sand to build permanent houses?

4. What is dew?

5. How is gas able to spread in all directions?

6. What do you mean by adapting to be safe, explain with examples?

7. What is meant by digestion of food?

8. When is work said to be done?

9. What is acid rain?

Q5. Classify.

(4 mks)

1. moss, mushroom, fern, orchid, toadstool

a. Epiphytes –

b. Non-green plants –

2. muscular, mechanical, frictional, electrical, gravitational, solar

a. Types of force –

b. Types of energy –

3. deer, lion, giraffe, fox, elephant, tiger

a. Herbivores –

b. Carnivores –

4. fir tree, cactus, cedar tree, date palm, pine

a. Mountain plants –

b. Desert plants –

Q6. Explain.

(5 mks)

1. Water is known as the universal solvent.

2. Roots of the trees in marshy lands grow out of the soil.

3. Synthetic fabrics are stronger than natural fabrics.

4. Roughage cannot be digested and has no food value but it is very important.

5. Animals living in plains have strong legs.

Q7. Choose the correct option.

(4 mks)

1. The equator does not experience different seasons. This happens because -
 - a. The equator is always stationary
 - b. The equator always receives the same amount of sunlight
 - c. The hemispheres block the sunlight and the equator is always very cold

2. When smoke is released from factories and burning of fuel, the surrounding atmosphere is polluted and causes -

- a. Water pollution
- b. Soil pollution
- c. Air pollution

3. The green leaf prepares food with the help of sunlight. Which part of the leaf trap the sunlight -

- a. Petiole
- b. Veins
- c. Leaf blade

4. Rahul wants to draw water from the well. Which simple machine must he use to do so efficiently -

- a. A pulley
- b. A lever
- c. A wheel and axle

Q8. Give Reasons.

(6 mks)

1. Animals like seals, walruses and penguins have blubber -

2. You must wear cotton clothes while bursting crackers or cooking.

3. Trees in the mountains like fir, pine, etc. are called evergreen trees.

Q9. Say what will happen.

(6 mks)

1. If food is kept out for a long time without any preservatives -

2. If we throw an apple towards the sky -

3. If chemical water from factories is released into water bodies -

4. If you add two teaspoons of sugar and one teaspoon of sand to a glass of water -

Q10. With the help of activities conducted, pick the correct option.

(5 mks)

1. When a cold bottle of water is removed and kept out on a table, you will see water droplets on the outer surface of the bottle, this happens because –
 - a. The water evaporates and forms water vapour
 - b. The water vapour condenses to form water drops
 - c. The water freezes to form water drops

2. Mohan and Tina try to carry their mother's heavy bag. Mohan carries it from the ground floor to the first floor but Tina just carries the bag and takes three steps ahead with it –
 - a. Work is done by both Mohan and Tina
 - b. Work is done only by Tina
 - c. Work is done only by Mohan

3. When a stone is throw at a mango on the mango tree it falls down. Energy is needed for it to fall –
 - a. The moving stone has mechanical energy
 - b. The moving stone has gravitational energy
 - c. The moving stone becomes sharp and cut off the mango stem

4. Take two plastic bowls fill one with water and the other with sand. Keep both the bowls out in the evening sun for one hour. What is the temperature of both the bowls -
 - a. The bowl of water is hotter
 - b. The bowl of sand is hotter
 - c. Both the bowls have the same temperature

5. A tightly closed plastic jar filled with soil is kept in the hot sun for about an hour. On opening the lid, we notice that it –
 - a. Is dry and clean
 - b. Has water drops on it
 - c. Is become very cold and dry