



INDIAN SCHOOL AL WADI AL KABIR

CLASS: VII

DEPARTMENT: SCIENCE
2020 -21

DATE: 020/09/2020

REVISION WORKSHEET

NAME

CLASS & SEC

ROLL NO.

I. OBJECTIVE TYPE QUESTIONS

- 1) The swallowed food moves downwards in the alimentary canal because of _____
 - a) Force provided by the muscular tongue
 - b) The flow of water taken with the food
 - c) Gravitational pull
 - d) The contraction of muscles in the wall of food pipe

- 2) The enzymes present in the saliva convert _____
 - a) Fats into fatty acids and glycerol
 - b) Starch into simple sugars
 - c) Proteins into amino acids
 - d) Complex sugars into simple sugars

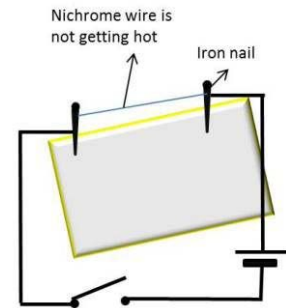
- 3) The acid present in the stomach _____
 - a) Kills the harmful bacteria that may enter along with the food
 - b) Protects the stomach lining from harmful substances
 - c) Digests starch into simpler sugars
 - d) Makes the medium alkaline

- 4) Choose the correct order of terms that describes the process of nutrition in ruminants
 - a) Swallowing → partial digestion → chewing of cud → complete digestion
 - b) Chewing of cud → swallowing → partial digestion → complete digestion
 - c) Chewing of cud → swallowing → mixing with digestive juices → digestion
 - d) Swallowing → chewing and mixing → partial digestion → complete digestion

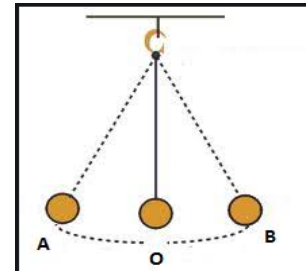
- 5) Selective breeding is a process of _____
- Selecting the offspring with desired properties
 - Selecting the parents with desired properties
 - Selecting an area for breeding
 - Selecting fine hair for good quality wool
- 6) The general process that takes place at a sheep shearing shed is _____
- Removal of fleece
 - Separating hair of different textures
 - Washing of sheep fibre to remove grease
 - Rolling of sheep fibre into yarn
- 7) Scientist who discovered magnetic effect of current is _____
- Issac Newton
 - Hans Christian Oersted
 - Thomas Alva Edison
 - Alfred Nobel

II. PICTURE BASED

- 1) In the given circuit, a piece of nichrome wire is connected between the nails and the switch is open.
- What will happen if the switch is closed and you touch the wire?
 - Why does it happen?
 - Why should we not keep the switch on for a long time?



- 2) Observe the figure. The time period of a simple pendulum is the time taken by it to travel from-
- A to B and back to A
 - O to A, A to B and B to A
 - B to A, A to B and B to O
 - A to B



III. CASE STUDY

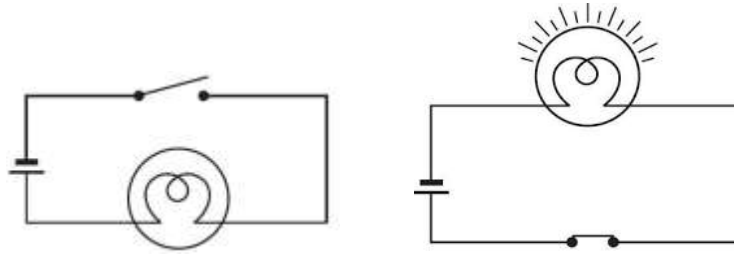
Some crushed boiled rice is put in water in a test-tube and a few drops of dilute iodine solution are added to it. A blue-black colour is produced which shows the presence of X in rice. If, however, the crushed rice and water are first mixed with saliva for some time and then dilute iodine solution is added, then no blue-black colour is produced. This shows that saliva converts X into product Y which does not produce blue-black colour with dilute iodine solution.

- Name X and Y
- What does the above activity tell us about the role of saliva in the digestion of food?

IV. 3 MARK QUESTIONS

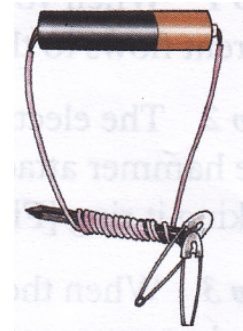
- 1) a) What is an electromagnet?

- b) Give two uses of electromagnets
- 2) a) Given below are two circuits a and b. Explain why the bulb glows only in circuit b.



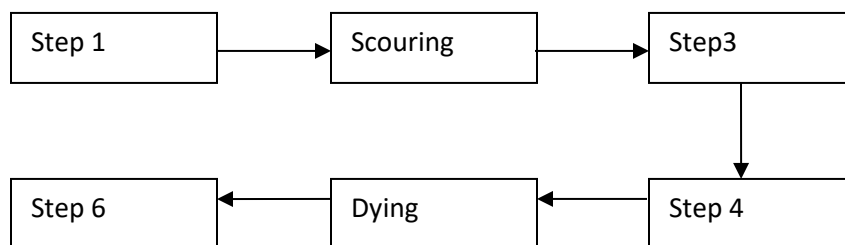
- b) Write two factors of conducting wires on which amount of heat produced depends.
- 3) a) What are electric fuses?
 b) What is the unique nature of the wire used in a fuse?
 c) Name device used these days in place of electric fuses in electrical circuits.
- 4) a) What is meant by following terms- (i) Sericulture (ii) Reeling of silk
 b) Why shearing does not hurt the sheep?
 c) Why some animals have thick coat of hair on their body?

- 5) Look at the diagram shown and answer the following-
- a) Identify the shown device.
 b) What is the use of this device in:
 (i) in cranes (ii) by doctors
 c) In the diagram, why does the iron nail attract safety pins?
 d) Reena by mistake removed the cell while performing the experiment.
 What would happen to the safety pins and why?



- 6) a) Draw a neat diagram of a simple pendulum showing its mean and extreme positions.
 b) Two Pendulums A and B each have a length of 15cm. The bob of pendulum A weighs 20g and that of B weighs 22g. Which pendulum will have greater time period? Give reason.
 c) What do the speedometer and odometer of a car record?
- 7) a) What do you mean by magnetic effect of electric current?
 b) What happens when a compass needle is brought near an iron nail while connected to a cell? Give reason
- 8) a) What is time period of a simple pendulum?
 b) Calculate the time period of the pendulum which takes 32s to complete 20 oscillations.
- 9) a) What is the advantage of having the inner lining of the small intestine in the form of villi?
 b) Into what substances are fats and proteins converted after digestion?

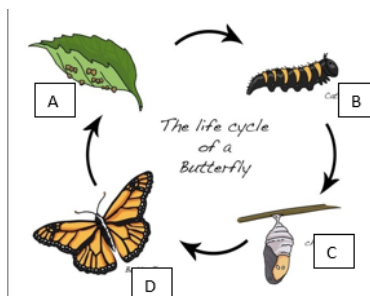
10) The flow chart given below represents the processing of fibres into wool-



- Identify the processes in step 1, step 3, step 4 and step 6.
- Describe in detail the processes in step 1 and step 6
- What is carding?

11) The life cycle of silk moth is given. observe the figure carefully and answer the following:

- Label the stages A, B, C and D
- Mention any two properties of silk
- What is reeling of silk?



12) i) Name the acids which are present in the following natural sources.

- | | |
|-------------|--------------|
| a) Grapes | b) Sour milk |
| c) Tamarind | d) Lemon |

ii) Organic matter is sometimes added to the soil. Why?

13) a) What are the functions of pseudopodia in Amoeba?

- If a piece of bread is chewed for some time without swallowing, it tastes sweet. Why?
- Where is the bile produced? Which component of the food does it digest?

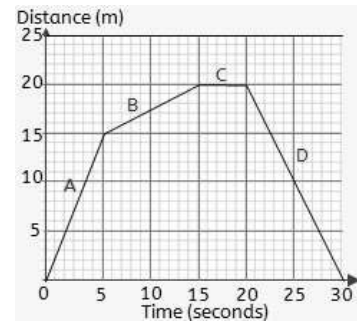
14) (i) What is neutralisation reaction? Give an example.

(ii) Explain why: Calamine solution is applied on the skin when an ant bite.

V. 5 MARK QUESTIONS

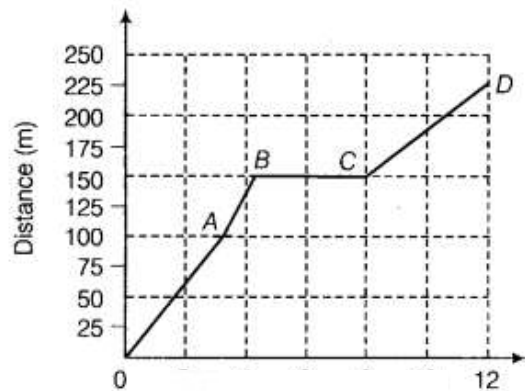
1) Study the Distance Time graph of the motion of a bicycle and answer the questions.

- a) How far did the bicycle move in 15 sec?
- b) What does the graph at C indicate about the motion of the bicycle?
- c) How much time has the bicycle taken to cover the part of the journey represented by D?
- d) Calculate the speed of the bicycle at 25 sec? (show necessary steps)
- e) What is the nature of motion of the bicycle from A to C? Give reason.

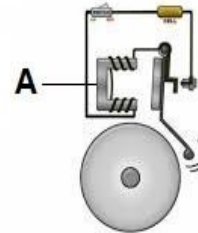


- 2) Tom goes to the football ground to play football. The distance-time graph of his journey from his home to the ground is given in the figure below.

- a) What does the graph between the points B and C indicate about the motion of Tom?
- b) Is the motion between 0 to 4 min uniform or non-uniform?
- c) What is his speed between 8 and 12 minutes of his journey?
- d) A bus moves at a constant speed of 45 km/h for 10 minutes. What is the distance covered by the bus? (Write the necessary steps)



- 3) a) Differentiate between Uniform motion and Non-Uniform motion.
- b) Name any three types of clocks used in the ancient times.
- c) A train makes 25 hours to reach a place B from a place A. If the speed of the train is 70km/hr. What is the distance between A and B in 6km/hr. Express in m/sec.



- 4) a) How does electric bulb cause wastage of energy? Which device is used in place of bulb to reduce this wastage?
- b) Identify the device shown in the diagram.
 - (i) What principle does it work on?
 - (ii) Label A and define it.
 - (iii) Mention two ways in which you can increase A's strength.

- 5) A farmer was unhappy because of his low crop yield. He discussed the problem with an agricultural scientist and realized that the soil of his field was too acidic. Help the farmer answering the following questions;

- a) State the reason for the change in nature of the soil.
- b) What remedy would you suggest to neutralize this soil?

c) Suggest one method to neutralize if the soil is too basic.

6) a) Why does a turmeric stain on a white shirt turn red when washed with soap?

b) Is distilled water acidic, basic or neutral? How would you verify it?

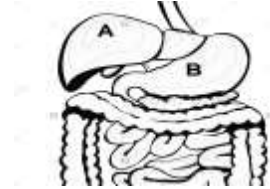
7) a) Identify the organs labelled A and B in figure.

b) How does the organ A help in digestion?

c) Which is the acid secreted by Organ B? Write its two functions.

d) How is the lining of organ B protected from this acid?

e) Digestion does not occur in the large intestine, yet its role is important. Justify

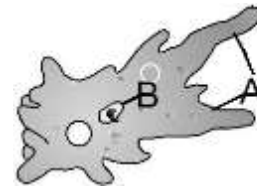


8) a) Which organism is shown in the figure?

b) Name the structures A and B.

c) What are the functions of A

d) How does structure B help in the digestion process?



9) Draw the circuit diagrams of open and closed electric circuits.

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