A

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E 706

Second Terminal Evaluation 2018-19

Basic Science

Class 7

Time : 2 hours

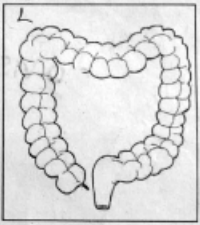
Instructions

1. 15 minutes cool off time for reading the questions
2. Ten activities are given
3. Answer any eight activities

Activity – 1

Observe the pictures of two parts of the digestive system.

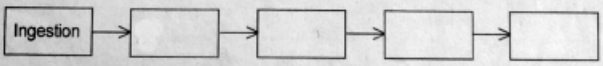
A



B

A. Indentify and name A and B. Explain how do they differ in structure and function.

B. Complete the flowchart showing various stages in the process of nutrition.



C. The parts and their functions of the digestive system are given in pairs. Write the correct pairs.

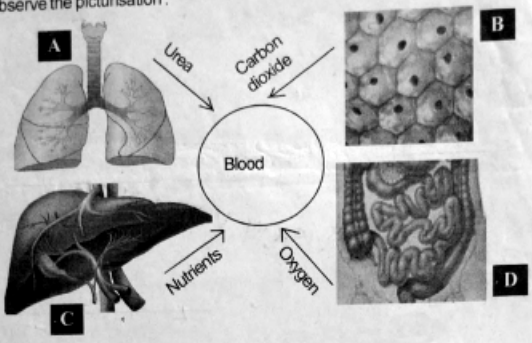
i.	Stomach – absorption of nutrients
ii.	Oesophagus – Peristalsis
iii.	Small intestine – Digestion begins
iv.	Large intestine – absorption of water

a. (i), (ii) c. (ii), (iv)

b. (ii) (iii) d. All are correct

Activity – 2

Observe the picturisation.



A. Identify each organ. See the components reaching the blood from each organ. If there any errors, correct them and complete the table given below.

Pictures	Organs	Components reaching the blood
(A)	.....	.....
(B)	.....	.....
(C)	.....	.....
(D)	.....	.....

B. How do the urea and the carbon dioxide reaching the blood is eliminated?

C. Find out the correct statements
Due to sweating .....

1. Body temperature is regulated
2. Digestion is made easy
3. Excess water and salts are expelled.
4. Prevents dehydration

Activity – 3

A. Complete the following table showing the dentition of an adult.

Teeth	Total number	function
A	8	helps to bite and cut food
Canine	B	
D	8	helps to chew and grind

B. Enamel is the outermost layer of teeth. Even though it is the hardest material in the human body, it may be decayed. Give the reason.

C. Canine teeth benefit mostly in

(i) Herbivores

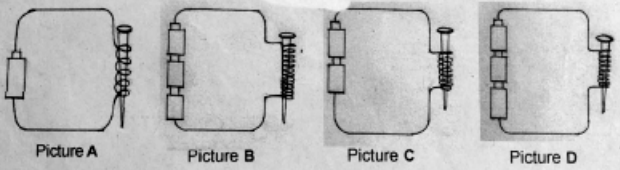
(ii) Carnivores

(iii) Omnivores

(iv) All are equally benefited.

Activity – 4

Observe the following diagrams showing the electromagnets made by some students



Picture A Picture B Picture C Picture D

A. Which one among them has the maximum force of attraction? Why?

B. An electromagnet made by a student did not get the force of attraction. What may be the reasons for this?

C. Things to be considered while selecting a fuse wire are given below. Identify the wrong statement.

1. Should be a conductor

2. The thickness of the wire should be based on the intensity of the current

3. Should be insulated.

Activity – 5

A. Design and picturise a device to identify objects that are conductors and non – conductors of electricity using the following materials.
(electric bulb, battery, insulated copper wire, card board, screw nails 2)

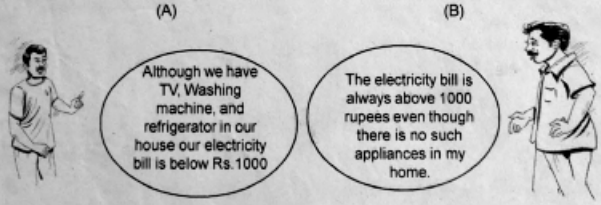
B. The conductivity of some objects are tested using the above device and prepared a table which is given below. Complete it.

Object	observation	Conclusion
iron nail	bulb glows	iron conducts electricity
dry 'eerkil'	_____	_____
refill	_____	_____
Aluminium foil	_____	_____
glass rod	_____	_____

C. Classify the objects given in the table based on these findings

Activity – 6

Read the following conversation



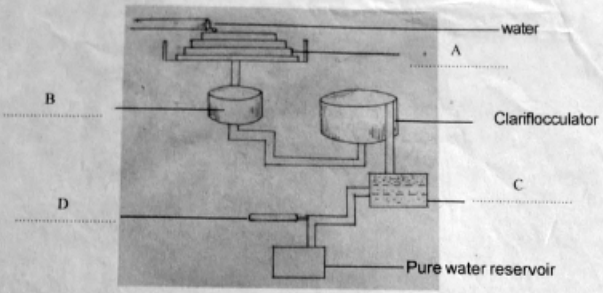
A. What are the reasons for high electricity bill of 'B' ?

B. Careless handling of electrical equipments may cause accidents. Write 4 situations of such accidents.

C. Suggest two first aid to be given to a person who had electric shock.

Activity – 7

Observe the following picturisation showing the various stages of purification of water.



A. Fill up the blanks A,B,C and D in the picturisation.

B. What will happen if the chlorinator is not working?

C. Which one of the following sample of water can be used for drinking?

Features	Sample 1	Sample 2	Sample 3	Sample 4
Turbidity	Turbid	clear	clear	clear
Smell	has smell	no smell	no smell	no smell
P^H	6.5 - 7.5	8.5 - 9.5	6.5 - 7.5	4.5 - 5.5

Activity – 8

Read the following News Headlines

Flood drowns Kerala.

Landslide in human inhabited areas

Mass distruction of earth worms

A. Write 4 environmental issues faced by Kerala after the flood.

B. How did the unwise intervention of man towards the environment increased the intensity of flood in Kerala?

C. Suggest two activities that can be taken for the conservation of underground water.

Activity – 9

Observe the picturisation

A. If we blow the balloon in the jar by blowing air through the pipe B, What changes can be observed in the beaker? Why?

B. What changes can be seen in the jar when the balloon shrinks? Why?

C. Which one of the following devices is used to measure atmospheric pressure?

A. Anemometer B. Thermometer
C. Barometer D. Hydrometer

Activity – 10

A. Name two devices which work based on the atmospheric pressure. Explain

B. Which property of air is used in blowing a balloon.

i. air has mass

ii. air can apply preasure all around

iii. air has shape

iv. air expands on heating