

DWARKA INTERNATIONAL SCHOOL
SECTOR-12, DWARKA, NEW DELHI-110075
CLASS VII (SCIENCE) 2019-2020
SAMPLE PAPER

TIME: 3 hours

MM:80

Q1. Multiple choice questions:

(1x10=10)

- a) Iodine shows blue-black colour with
(i) fat (ii) protein (iii) starch (iv) glucose
- b) Intestinal juice do not contain
(i) erepsin (ii) pepsin (iii) lactase (iv) sucrase
- c) The mechanical digestion of food starts in
(i) mouth (ii) stomach (iii) small intestine (iv) oesophagus
- d) Curd contains which acid?
(i) citric acid (ii) formic acid (iii) acetic acid (iv) formic acid
- e) Fuse wire is made up of
(i) iron and lead (ii) copper and tin (iii) aluminium (iv) tin and lead
- f) Ginger can be propagated with the help of
(i) rhizome (ii) tuber (iii) bulb (iv) corm
- g) Which of the following is an artificial method of vegetative propagation
(i) bulb (ii) bud (iii) fragmentation (iv) cutting
- h) Which of the following is an alloy of iron and carbon
(i) steel (ii) brass (iii) bronze (iv) stainless steel
- i) Which of the following is a unisexual flower?
(i) rose (ii) pumpkin (iii)hibiscus (iv) both i and iii
- j) Bile is secreted by
(i) salivary gland (ii) gall bladder (iii) stomach (iv) liver

Q2. Fill in the blanks:

(1x5=5)

- a) In the stomach food is processed into a thick liquid called _____ .
- b) Chemical formula for slaked lime is _____.
- c) _____ is the longest portion of digestive tract..
- d) Growth of nail is a _____ change.
- e) Neutralization reaction is a/an _____ reaction.

Q3. Define the following term:

(1x5=5)

- a) Solenoid
- b) Budding
- c) Epiglottis
- d) Weather
- e) Reactant

Q4. Answer the following questions in brief (any 10):

(10x2=20)

- a) What is the magnetic effect of current? Who discovered it?

- b) Why MCB is preferred over fuse?
- c) How is an acid different from a base? Give examples for both.
- d) What is pollination? What are the different agents for pollination?
- e) How is a rose plant grown by the method of vegetative propagation?
- f) Differentiate between chemical and physical change. Give one example for each.
- g) How do elephants communicate? Give one adaptation of elephant.
- h) Explain the chemical reaction when copper sulphate reacts with iron.
- i) Why rusting is seen mostly in rainy days? Explain.
- j) What happens when vinegar reacts with baking soda? Write the chemical equation involved.
- k) Differentiate between sexual and asexual reproduction with examples.

Q5. Answer the following questions in detail:

(3x6=18)

- a) How does the digestion of food take place in ruminants?
- b) Explain the role of stomach in digestion.
- c) Give reasons:
 - i. Gardeners add lime to the soil.
 - ii. Parasites are harmful for the host plant.
 - iii. Explosion of crackers is a chemical change.
- d) How does amoeba get its nutrition? Explain with the help of a well-labelled diagram.
- e) What are bases? Explain their characteristic property.
- f) What are spores? Where are they found? How does the asexual reproduction take place in plants having spores?

Q6. Answer the following questions in detail:

(4x3=12)

- 1) What is seed dispersal? Why is it important in plants? Name some common agents which help in the dispersal of seed.
- 2) Why is rainforest home to more than half of the animal life on earth? Contrast the climate of the polar region with that of a rainforest.
- 3) List the uses of:
 - (i) sulphuric acid (ii) magnesium hydroxide (iii) acetic acid (iv) hydrochloric acid

Q7. Answer the following questions in detail : (Any two)

(5x2=10)

- 1) a) Explain the process of digestion in human beings.
 - b) Name the enzymes secreted by salivary gland, pancreas, stomach and small intestine.
 - c) What will happen when there is excess acid secreted in stomach?
- 2) Explain the formation of the zygote and the endosperm in a mango plant with the help of well-labelled diagrams.
- 3) Explain the structure of a flower with the help of a well-labelled diagram. What is the difference between a unisexual and a bisexual flower.