

PRACTICE PAPER- 2019-2020

Class – X

Subject – Science

Time Allowed : 3 Hrs.

Maximum Marks : 80

General Instructions :

(i) All questions are compulsory.

(ii) Marks are indicated against each question.

Q.1 Which of the following organ secreted bile in human digestive system. (10x1 = 10)

- (a) Pancreas (b) Liver
(c) Kidney (d) Heart

Q.2 Which one of the following organisms shows budding ?

- (a) Amoeba (b) Paramecium
(c) Hydra (d) Spirogyra

Q.3 In a food chain, the initial organism is usually.

- (a) Autotrophs (b) Herbivores
(c) Saprotrophs (d) Parasites

Q.4 Which one of the following is a natural ecosystem ?

- (a) Garden (b) Park
(c) Forest (d) Aquarium

Q.5 The muscular diaphragm that controls the size of pupil is.

- (a) Cornea (b) Ciliary muscles
(c) Iris (d) Retina

Q.6 Pollen grains are produced by :

- (a) Ovary (b) Ovule
(c) Anther (d) Corolla

Q.7 Reflex arc is formed by :

- (a) muscle → brain → Receptor
(b) muscle → spinal cord → receptor
(c) Receptor → brain → muscle
(d) Receptor → spinal cord → muscle

Q.8 CHO represents the functional group.

- (a) Esters (b) carboxylic acid
(c) Alcohols (d) Aldehydes

Q.9 pH of H₂O is :

- (a) 7 (b) 8
(c) 9 (d) 10

(P.T.O.)

(2)



The colour of Iodine is

- (a) Green (b) Purple
(c) Brown (d) Pink

Q.11 Define the term decomposition reaction with example. (2)

Q.12 What is rancidity ? Mention any two ways by which rancidity can be prevented ? (2)

Q.13 Name the natural source of each of the following acid. (2)

- (i) Citric acid (ii) oxalic acid
(iii) Lactic acid (iv) Tartaric acid

Q.14 Write chemical name of plaster of paris write a chemical equation to show the reaction between plaster of paris and water. (2)

Q.15 What is neutralisation reaction ? Give one example. (2)

Q.16 Explain the following : (3)

(a) Sodium chloride is an ionic compound which does not conduct electricity in solid state where as it does conduct electricity in molten state as well as in aqueous solution.

(b) Metals like calcium and magnesium are never found in their free state in nature.

Q.17 Show the bond formation in NaCl. (3)

Q.18 What is corrosion ? Name three metals which can corrode. Name two metals which do not corrode. (3)

Q.19 Write the molecular formula of ethene and draw its electron dot structure. (3)

Q.20 (i) What is difference between soap and detergents. Mention two difference. (3)

(ii) Write IUPAC name of following — CH_3OH , CH_3COOH

Q.21 Distinguish between esterification and saponification reaction with the help of chemical equations for each. (3)

Q.22 How does metallic character of elements in modern periodic table vary on moving. (3)

- (i) left to right in a period.
(ii) top to bottom in a group.

Q.23 How many groups and periods are there in the modern periodic table ? How do atomic size vary as we move. (3)

- (i) down a group (ii) from left to right in a period

Q.24 Draw a neat diagram of excretory system of human beings and label the following :

- (i) kidney (ii) Ureter (5)
(iii) Urinary bladder (iv) Urethra

Q.25 Write the structural and the functional unit of the nervous system. Draw its neat labelled diagram and write its two function. (5)

Q.26 Define the term pollination and fertilization. Draw a diagram of pistil showing pollen tube growth into the ovule and label the following – Pollen grain, male gamete, female gamete, ovary.

(3)

Q.27 Define the following term – (5)

(a) Geographical isolation (b) Genetic drift (c) Natural selection

Q.28 A 4 cm tall object is placed perpendicular to the principal axis of a convex lens of focal length 24 cm at a distance of 16 cm from it. Use lens formula to determine the position, size and nature of the image formed. (5)

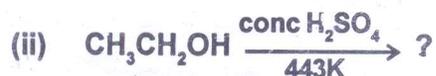
Q.29 Match the column - I with column - II (4)

COLUMN-I

COLUMN - II

- | | |
|------------------------|-------------|
| 1. Producers | Bacteria |
| 2. Primary consumers | Carnivores |
| 3. Secondary consumers | Green plant |
| 4. Decomposers | Herbivores |

Q.30 What happens when ? (2)



Q.31 Write Fleming's left hand rule ? (2)

Q.32 A 9Ω resistance is cut into three equal parts and connected in parallel. Find the equivalent resistance of combination. (2)

Q.33 The sky appears dark instead of blue to an astronaut. Explain the reason. (1)
