

2021- Class 9th
(Biology)
(First Group)

1. "Biology" word has been derived from two words.

- (A) Greek
- (B) Latin
- (C) German
- (D) English

2. Tentative explanation of observations is called

- (A) Hypothesis
- (B) Experiment
- (C) Deduction
- (D) Problem

3. Five kingdom system of classification was introduced by

- (A) Schwartz
- (B) Margulis
- (C) Aristo
- (D) Robert Whittaker

4. Colourless plastids are called.

- (A) Chloroplast
- (B) Chromoplast
- (C) Leucoplast
- (D) Phragmoplast

5. Phase of cell division in which chromosomes are arranged at the equator of spindle fibrosis.

- (A) Prophase
- (B) Metaphase
- (C) Anaphase
- (D) Telophase

6. The stage of cell division is very different for animals and plant cell.

- (A) Metaphase
- (B) Anaphase
- (C) Telophase
- (D) Cytokinesis

7. The term Enzyme was first used by the Physiologist.

- (A) Ibn-e-Nafees
- (B) (Emil Fisher)
- (C) Winhelm Kuhne
- (D) Louis Pasture

8. Proces of Glycolysis occurs in

- (A) Cytoplasm
- (B) Nucleus

(C) Mitochondria

(D) Chloroplast

9. One gram of lipid contain energy.

(A) 0.4 K Cal

(B) 0.6 K Cal

(C) 09 K Cal

(D) 3.7 K Cal

10. Villi are found in.

(A) Esophagus

(B) Stomach

(C) Small Intestine

(D) Large Intestine

11. The protein which maintains the water balance of blood is.

(A) Fibrinogen

(B) Albumin

(C) Hemoglobin

(D) Globulin

12. In most plants food is transported in the form of.

(A) Glucose

(B) Starch

(C) Sucrose

(D) Protein

(D G Khan Board)
2021- Class 9th
(Biology)

(Group - I)

Q. No. 2: Write short answers of any Five of the following. (5 x 2 = 10)

Define community. Write its types.

Write short note about colonial type of cellular organization.

Differentiate between Cell Biology and Histology.

What is meant by summarization of results in solving biology problem?

In which formats data is organized?

Why quantitative observations are better than qualitative observations?

Differentiate between primary wall and secondary wall of plant cells.

What is difference between passive transport and active transport?

Q. No 3: Write short answers of any Five of the Following. (5 x 2 = 10)

Define oxidation and reduction reactions.

Differentiate between alcoholic fermentation and lactic acid fermentation.

Define crossing over.

Write role of mitosis in regeneration.

Define meiosis.

Write down the classification of Human being.

How taxonomy and systematics are related to each other?

Define biodiversity.

Q. No. 4: Write short answers any of five of the following. (5 x 2 = 10)

Differentiate between substrates and products.

Write the categories of enzymes on the basis of the site where they work.

Define lock and key model.

Define minerals.

What is the function of bile?

Write difference between source and sink.

Write two reasons for the creation of transpiration pull.

Write two preventive measures of dengue fever.

NOTE: Attempt any two questions from this part. (9 x 2 = 18)

- Describe organ and organ system level with examples. 4
- Write a note on nucleus and draw diagram. 5
- Explain three main types of organisms in Kingdom Protista. 4
- Write a note on the Dark Reaction in detail. 5
- Explain digestion in small intestine in detail. 4
- Explain opening and closing of stomata. 5

2021* Class 9th
(Biology)
(Group II)

Q1:

- 1. Percentage composition of Hydrogen in protoplasm of living organisms is.**
 - A. 18 %
 - B. 10 %
 - C. 03 %
 - D. 65 %
- 2. Deductions are the logical consequences of.**
 - A. Hypothesis
 - B. Experimentation
 - C. Observations
 - D. Quantitative observations
- 3. Which are composed of protein only.**
 - A. Bacteria
 - B. Virus
 - C. Prions
 - D. Viroids
- 4. Each ribosome is made up of equal amount of RNA and _____**
 - A. Lipids
 - B. Proteins
 - C. Carbohydrates
 - D. DNA
- 5. It is the reversal of prophase.**
 - A. Metaphase
 - B. Anaphase
 - C. Telophase
 - D. G-I phase
- 6. Thomas Hunt Morgan observed which phenomenon in fruit fly?**
 - A. Synapsis
 - B. Chiasmata
 - C. Crossing over
 - D. Melosis-I
- 7. Emll Fischer proposed lock and key model in which year?**
 - A. 1955
 - B. 1958
 - C. 1898
 - D. 1894

- 8. Nicotinamide adenine dinucleotide is a.**
- A. Enzyme
 - B. Co-enzyme
 - C. Factor
 - D. Co-factor
- 9. It helps in the digestion of lipids through emulsification.**
- A. Pancreatic Juice
 - B. Gastric Juice
 - C. Intestinal Juice
 - D. Bile
- 10. The brood zone present external to endodermis is called.**
- A. Cortex
 - B. Pericycle
 - C. Root Hair
 - D. Xylem
- 11. Which mineral is essential for normal thyroid function?**
- A. Zinc
 - B. Iron
 - C. Sodium
 - D. Iodine
- 12. Average adult body has blood.**
- A. 5 litre
 - B. 15 litre
 - C. 7 litre
 - D. 9 litre

(D G khan Board)
2021- Class 9th
(Biology)

(Group II)

Q. No.2: Write short answers of any Five of the following. (5 x 2 = 10)

What is meant by habitat?

Define immunology.

What is community level?

What are deductions?

Define theory.

Why data analysis is necessary?

Define cell organelles.

Differentiate between endocytosis and exocytosis.

Q. No.3: Write short answers of any Five of the following. (5 x 2 = 10)

Write the classification of human being.

Write characteristics of Kingdom Monera.

Define taxonomy and systematics.

Define metastasis.

Define cell cycle and write names of its phases.

What is meant by Non-disjunction?

What is Z-Scheme?

What is the source of fuel used in respiration?

Q. No.4: Write short answers any of Five of the following. (5 x 2 = 10)

How do enzymes lower the activation energy?

What are metabolic pathways?

Define cofactor and coenzyme.

Give the difference between major minerals and trace minerals.

Write down the sources of vitamin A.

What are the symptoms of dengue fever?

Differentiate between arteriosclerosis and atherosclerosis.

What is meant by angina pectoris?

NOTE: Attempt any two questions from this part. (9 x 2 = 18)

Describe cellular organization in organisms. Also write its types. 4

Write difference between prokaryotic and eukaryotic cells. 5

Write aims and basis of classification. 4

What is meant by anaerobic respiration? Explain its types 5

Describe role of liver in human body. 4

Write a note on red blood cells and white blood cells. 5