

Gujranwala Board 2021

Class 9th

Biology

Group - I

1.1. **Which chamber of human heart has thick walls?**

- A. right atrium
- B. left atrium
- C. right ventricle
- D. left ventricle

2. **An average volume of blood in adult human body is about _____ litres.**

- A. 5
- B. 10
- C. 15
- D. 20

3. **The part of elementary canal in which maximum absorption occurs is called:**

- A. esophagus
- B. stomach
- C. small intestine
- D. large intestine

4. **Bacteria living in colon produce vitamin**

- A. E
- B. K
- C. D
- D. C

5. **The greatest fuel of energy for cellular respiration is**

- A. glucose
- B. protein
- C. aminoacid
- D. lipids

6. _____ is an important coenzyme.

- A. analyse
- B. sodium
- C. glucose
- D. folic acid

7. **Who discovered the mitosis?**

- A. Pasteur
- B. Drawn
- C., Walther flemming
- D. Lamarck

8. **Crossing over occurs in**

- A. prophase 1
- B. metaphase 1
- C. telophase 1
- D. anaphase 1

9. **Fluid of chloroplast is called**

- A. cytoplasm
- B. cytosol
- C. stroma
- D. nucleoplasm

10. **In binomial nomenclature, the first letter of _____ is capital.**

- A. family
- B. class
- C. species
- D. genus

11. **The logical consequences of hypothesis are called**

- A. formula
- B. observations
- C. deduction
- D. experiments

12. **_____ is an example of micro molecule.**

- A. glucose
- B. starch
- C. lipids
- D. proteins

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Q2. Write short answers to any FIVE (5) questions: 10

- i. Define genetics.
- ii. Differentiate between micromolecules and macromolecules.
- iii. Define species and habitat.
- iv. What is data?
- v. What do you know about summarization of results?
- vi. Define biological method.
- vii. Define endocytosis. Describe its two types.
- viii. Define chromoplast.

Q3. Write short answers to any FIVE (5) questions.: 10

- i. What is meant by binomial nomenclature?
- ii. What do you know about kingdom monera?
- iii. What is meant by biodiversity?
- iv. What is G₁ phase?
- v. What is meant by chiasmata?
- vi. Write down the process of budding in hydra.
- vii. Define fermentation. Write down the name of its two types.
- viii. What are dark reactions?

Q4. Write short answers to any FIVE (5) questions.: 10

- i. Define activation energy. How do enzymes lower the activation energy?
- ii. Differentiate between intracellular enzymes and extracellular enzymes.
- iii. Define cofactors.
- iv. Differentiate between assimilation and defecation.
- v. What are dietary fibres. Write down their two functions.
- vi. What is meant by pulmonary circulation?

- vii. What are tricuspid valve and bicuspid valve?
- viii. Write down any two symptoms of Dengue Fever?

PART - II

Note: Attempt any Two questions.

- 5. (a) Write down a note on population level and community level. 4
- (b) Write down a detailed note on plastids. 5
- 6. (a) Write down the importance of biodiversity in detail. 4
- (b) Define light reactions. Give summary of the events of light reactions. 5
- 7. (a) Write down a note on digestion of food in stomach. 4
- (b) Describe the composition of blood in detail. 5

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Group - II

1.1. The capillaries are thick equal to

- (A) one
- (B) two
- (C) three
- (D) four

2. Normal pH blood is

- (A) 7.3
- (B) 7.4
- (C) 7.5
- (D) 7.6

3. Elimination of undigested food from the body is called

- (A) ingestion
- (B) digestion
- (C) absorption
- (D) defecation

4. Mineral essential for normal thyroid function is

- (A) iron
- (B) zinc
- (C) iodine
- (D) fluoride

5. Number of carbon atoms in ribose sugar is

- (A) 2
- (B) 3
- (C) 4
- (D) 5

6. Pepsin enzymes works in

- (A) mouth
- (B) stomach
- (C) intestine
- (D) liver

7. Telophase is a reversal of

- (A) prophase
- (B) metaphase
- (C) anaphase
- D) anaphase 1

8. Meiosis was discovered by

- (A) Oscar Hertwig
- (B) Golgi
- (C) John Ray
- (D) Walther Flemming

9. The prokaryotic chromosomes is made up of

- (A) DNA and protein
- (B) only DNA
- (C) only protein
- (D) only lipids

10. Five Kingdom System was introduced by

- (A) Margulis and Schwarz
- (B) Bobert Writtake
- (C) John Ray J
- (D) Ernst Hackel

11. Productive theory keeps on suggesting new

- (A) law
- (B) deduction
- (C) observations
- (D) hypothesis

12. The study of form and structure of living organisms is called

- (A) physiology
- (B) anatomy
- (C) morphology
- (D) cell biology

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Group - II

- Q2. Write short answers to any FIVE (5) questions:** 10
- i. Define morphology.
 - ii. Define population and community.
 - iii. Define zone of life.,
 - iv. Write down two characteristics of hypothesis.
 - v. Define theory.
 - vi. What is biological method?
 - vii. What are plasmodesmata?
 - viii. Define plasmolysis.
- Q3. Write short answers to any FIVE (5) questions:** 10
- i. Differentiate between flora and fauna.
 - ii. Write down two aims of classification.
 - iii. Define binomial nomenclature.
 - iv. Write down difference between somatic cells and germ line cells.
 - v. What is phragmoplast?
 - vi. What is kinetochore?
 - vii. Define lactic acid fermentation.
 - viii. What is meant by dark reactions?
- Q4. Write short answers to any FIVE (5) questions:** 10
- i. Describe the active site of enzyme.
 - ii. Define substances.
 - iii. What is cofactor?
 - iv. Write down any two symptoms of deficiency of vitamin A.
 - v. Define digestion.
 - vi. What is angina pectoris?

- vii. Differentiate between source and sink.
- viii. What are the symptoms of Dengue Fever?

PART - II

Note: Attempt any Two questions.

- 5. (a) Describe the molecular level and tissues level of organization of life. 4
(b) Differentiate between prokaryotic and eukaryotic cells. 5
- 6. (a) Write down a note on status of viruses. 4
(b) Define light reactions and write down the summary of light reactions. 5
- 7. (a) Explain the role of oral cavity in digestion of food. 4
(b) How does "cohesion-tension theory" explain the transport of water in plants? 5