



Final term Exam



Department: Zoology  
Code number: 101 Z  
Time: one Hour

Major: Biology  
Mark: 60

Course Title: General zoology  
Date: 27 -12- 2025

**Question One: Write on:-** (9 degree)

- a- Glycolysis
- b- Endocrine system
- c- Function of nervous system

**Question Two: Chose the correct answer** (11 degree)

- 1- Gastrovascular cavity is found in:  
a- Annelida                      b- Fish                      c- Hydra                      d- Sepia
- 2- Is an important source of energy:  
a- Proteins                      b- Fats                      c- Vitamins                      d- Enzymes
- 3- Organic compounds, insoluble in water:  
a- Oxygen                      b- Protein                      c- Glucose                      d- Fatty acid
- 4- The animal body is not capable of storing:  
a- Protein                      b- Fat                      c- Carbohydrate                      d- Glycogen
- 5- Starches are hydrolyzed to:  
a- Glycogen                      b- Glycine                      c- Glucose                      d- Alanine
- 6- The process of conversion of the excess blood sugar to glycogen known as:  
a- Photosynthesis                      b- Photolysis                      c- Glycogenesis                      d- Glycogenolysis
- 7- Insulin is secreted by:  
a-stomach                      b- intestine                      c- adrenal gland                      d- pancreas
- 8- Microorganisms live in the digestive tract and share in digestion:  
a- Fungi                      b- Bacteria                      c- Algae                      d- Annelids
- 9- Rennin is an important enzyme in the digestive system of:  
a-Fishes                      b- Birds                      c- Mammals                      d- Reptilia
- 10- Circulatory system absent in:  
a-Insects                      b- Sponge                      c- Sepia                      d- Tilapia
- 11- Branchial Respiration is present in:  
a-Protozoa                      b- Fasciola                      c- Hydra                      d- Fish

**Question Three: (Complete the following)** (15 degree)

- 1- The principle types of body tissues are, .....
- 2- Plants can obtain the molecules required for cellular function through the process of .....
- 3- From the principal uses of food, .....
- 4- The amino acids are grouped under, .....
- 5- Vitamins are differentiated according to their solubility to .....
- 6- Impulses are carried to and from the brain by .....
- 7- Enzymes catalyze metabolic reactions by .....
- 8- Most of the absorbed amino acids are removed from the blood by .....

- 9- Examples of the endocrine organs involved in carbohydrate metabolism, .....
- 10- After absorption the glucose is oxidized to .....
- 11- Examples of the blood functions.....
- 12- The major waste products are .....
- 13- Major organs of excretion: .....
- 14- Green plants obtain their energy by .....
- 15- An example of a higher endoskeletal structure are .....

**Question Four: What is the meaning by each of the following:- (10 degree)**

**( one or two word only for each )**

- 1- A group of cells interconnected to perform one function.
- 2- Are important in carrying out anaerobic growth promoting reactions.
- 3- Are the simplest unit of all the lipids.
- 4- Are complex protein molecules synthesized in the cells.
- 5- The sum of total chemical reactions necessary for the foodstuffs.
- 6- Rise in blood sugar due to absence of enough insulin.
- 7- Is a liquid tissue consisting of the plasma and the blood corpuscles floating in it.
- 8- That responsible on taking oxygen and discharges carbon dioxide.
- 9- The process of removal of wastes from the body.
- 10- Animals that eat both plants and animals.

**Question Five: ( Write True or False ) · (15 degree)**

- 1- Integumentary respiration is present in protozoa.
- 2- Kidneys are the chief organs for excretion of wastes in vertebrates
- 3- There is a close link between Anatomy and Physiology.
- 4- Jelly fish have mouth and anus.
- 5- Metabolism is under the control of hormones.
- 6- Simple sugars may be changed into glycogen in the liver.
- 7- Adrenaline increases the concentration of glucose in the blood.
- 8- Nematocysts in fish have an important role in feeding
- 9- The mouth has a number of buccal glands pouring their secretions into the mouth.
- 10- Nervous and hormonal controls are involved in metabolism.
- 11- Vitamins C and B complex are fat soluble substances.
- 12- Proteins are the main sources of energy in the body.
- 13- Fats may converted to carbohydrates and stored in the tissues.
- 14- Protein is necessary as an energy source in the body.
- 15- Animal body needs great amounts of vitamins in their diet.

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***With Best Wishes***

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