

Greenlawns High School
Terminal Examination 2023-24
Subject: Biology

Std: IX C

Date: 17/10/2023

Time: 2 Hours

Marks: 80

- Answers to this Paper must be written on the paper provided separately.
- You will not be allowed to write during first 15 minutes.
- This time is to be spent in reading the question paper.
- The time given at the head of this Paper is the time allowed for writing the answers.
- Section A is compulsory. Attempt any four questions from Section B.

SECTION A
(Attempt all questions from this Section.)

Q.1 Choose the correct answers to the questions from the given options:(15)

- i) The long flat bone lying in the middle of front part of the chest.
a) Sacrum b) Sternum c) Coccyx d) Ribs
- ii) Which type of a teeth helps in holding and tearing the food.
a) Molars b) Incisors c) Premolars d) Canines
- iii) The vermiform appendix is projected from _____
a) Duodenum b) Colon c) Caecum d) Rectum
- iv) Which of the following is not a monosaccharide?
a) Fructose b) Galactose c) Lactose d) Glucose
- v) Which of the following diseases is caused due to deficiency of vitamin B₁?
a) Osteomalacia b) Rickets c) Beriberi d) Pellagra
- vi) Which of the following statement is not for cross- pollination?
a) New variety of plant is produced.
b) There is no wastage of pollen grains.
c) The offspring is healthier.
d) Pollen grains of a flower of one plant is transferred to the stigma of a flower of another plant of the same species.

vii) In Epigeal Germination-

1. Cotyledons remains underground

2. Epicotyl elongates.

- a) Both 1 and 2 are True
- b) Both 1 and 2 are False
- c) 1 is True and 2 is False
- d) 1 is False and 2 is True

viii) On oxidation of 1 molecule of glucose, _____ ATP is produced through aerobic respiration.

- a) 10 b) 2 c) 30 d) 38

ix) Which of the following statements is true for anaerobic respiration?

- a) Ethanol is one of the end-products in plants.
- b) Lactic acid is one of the end products in animals.
- c) It takes place in absence of oxygen.
- d) All of the above.

x) Which of the following plastids are present in potato cells?

- a) Chromoplasts b) Leucoplasts c) Glucoplasts d) None of the above

xi) Parenchyma cells are _____

- a) Oval/polygonal, thin walled b) Thick walled, specialized
- c) Lignified d) None of the above

xii) The part of the flower that gives rise to the seed is _____

- a) Ovary b) Ovule c) Pollen grain d) Petal

xiii) Which part of the vertebral column represents the rudimentary tail of the human body?

- a) Ischium b) Sacrum c) Coccyx d) Pubis

xiv) Children do not have _____ up to about 2 years.

- a) Incisors b) Molars c) Premolars d) Canines

xv) Entomophilous flowers means _____ flowers.

- a) Insect pollinated b) Wind pollinated
- c) Water pollinated d) Bird pollinated.

Q.2 Name the following: (5)

- i) The fishes which selectively devour mosquito larvae.
- ii) A large hole present at the back part of the cranium through which spinal cord gets continued into the backbone.
- iii) The opening of stomach into intestine.
- iv) A distinct whitish oval scar on the concave side of the bean seed.
- v) The finger-like processes which are projecting inwards present on the inner walls of mitochondria.

Q.3 Fill in the blanks: (5)

- i) _____ and conjunctivitis are two diseases of the eye caused through dust and through contamination by hands and towels.
- ii) _____ is a severe protein deficiency disease usually affecting young children from 1-5 years of age.
- iii) _____ attaches the ovule to the wall of the ovary.
- iv) _____ divides into two sperm nuclei during germination of pollen grain.
- v) A nerve cell consists of a cell body _____ containing the nucleus.

Q.4 State whether true or false, if false correct the underlined word: (5)

- i) Culex mosquito spreads yellow fever.
- ii) There are five vertebrae in lumbar region.
- iii) Liver converts excess glucose into insoluble glycerol.
- iv) Micropyle provides for the diffusion of respiratory gases for the growing embryo.
- v) Golgi apparatus is also called as suicide bags.

Q.5 Match the column: (5)

Column A	Column B
i) Adipose tissue	a) Perception and responses
ii) Areolar tissue	b) Lymph
iii) Nerve tissue	c) Helps skin to withstand pulling strain
iv) Squamous epithelium tissue	d) Insulation for retaining the body heat
v) Fluid connective tissue	e) Cartilage
	f) Protection of underlying parts

Q.6 Choose the odd one out from the following terms and name the category to which other belongs: (5)

- i) Femur, Tibia, Fibula, Carpals, Phalanges.
- ii) Amylopsin, Trypsin, Erepsin, Steapsin.
- iii) Vitamin A, Vitamin C, Vitamin D, Vitamin E.
- iv) Cell wall, Chloroplast, Centrosome, Dictyosomes.
- v) Gram, Pea, Grass, Bean.

SECTION B

(Attempt any 4 questions from this Section.)

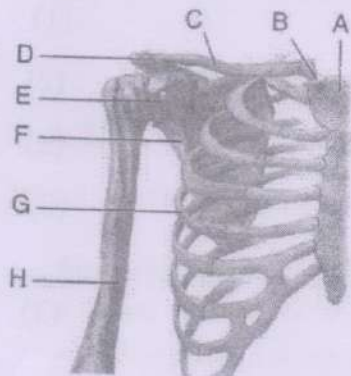
Q.7 Answer the following: (10)

- i) Differentiate between Ligaments and tendons based on their function. (1)
- ii) Define Peristalsis. Which enzyme gets activated by hydrochloric acid in stomach? (2)
- iii) What are the two causative germs of dysentery? In which type of dysentery the cyst remains active for a long time? (2)
- iv) State the major function of Mitochondria and Vacuole. (2)
- v) Explain the importance of villi in intestine. In which sub-region of intestine villi are present? Name the lymph vessel present inside the villus. (3)

Q.8 Answer the following: (10)

- i) State the location of Parotid glands. (1)
- ii) Why is papaya plant categorized as dioecious plant? Give another example of dioecious plant. (2)
- iii) What are phloem fibres? What is their function? (2)
- iv) Name one place each in living organisms where the following tissues are located- I) Cartilage II) Meristematic tissue. (2)

v) Study the diagram given below and then answer the question that follow: (3)

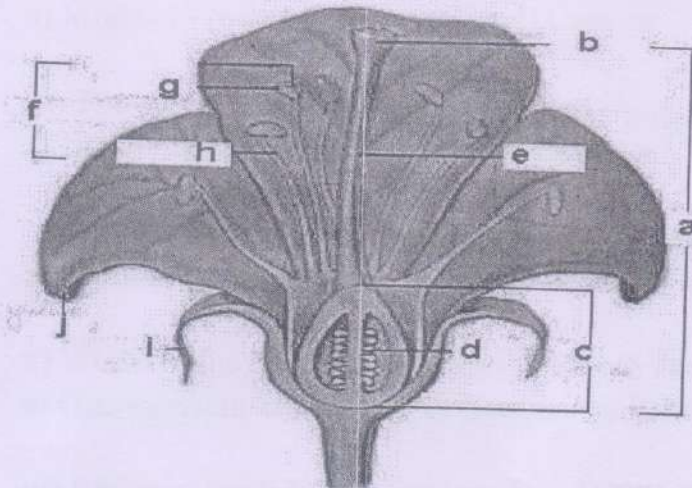


- I) Name the bones labelled as C and H.
- II) Which girdle is shown in the above diagram?
- III) Identify the type of joint shown in the above diagram.

Q.9 Answer the following:

(10)

- i) Define: Malnutrition. (1)
- ii) Explain: Oxygen is necessary for germination of seed. (2)
- iii) Write the chemical reaction for aerobic respiration. Explain the two major phases of breakdown of glucose during respiration in plants? (3)
- iv) Study the diagram given below and then answer the question that follow: (4)



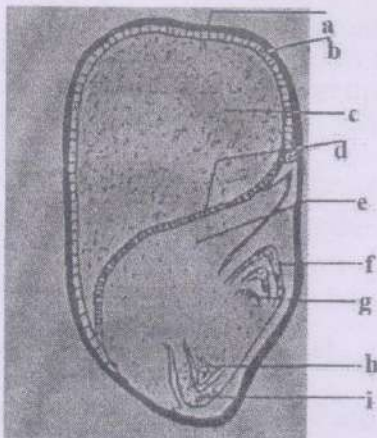
- I) Name the parts labelled g and h.
- II) State the function of i.
- III) Above two parts collectively forms _____.
- III) Which label in the given diagram represents Gynoecium?

Q.10 Answer the following: (10)

- i) Differentiate between anabolic and catabolic activities. (1)
- ii) Give reason – Nucleus is the most important part of the cell. (2)
- iii) Explain two important characteristics of wind pollinated flowers. (2)
- iv) Write any two characteristics of enzymes. (2)
- v) Draw a neat labelled diagram of ovule of a flower and the events occurring there. (3)

Q.11 Answer the following: (10)

- i) Why human red blood cells are biconcave in shape? (1)
- ii) Explain the terms – Dichogamy and Herkogamy. (2)
- iii) How many vertebrae are present in vertebral column? Why is vertebral column curved? (2)
- iv) Define: Contamination. Which disease is caused due to Rats? (2)
- v) Study the diagram given below and then answer the question that follow: (3)



- I) Name the parts labelled b and e.
- II) What is the function of c?
- III) Which part gets developed as roots?