

Greenlawns High School
Terminal Examination 2024-25
Subject: Biology

Std: IX C

Date: 01/10/2024

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)
(Write the correct option and the corresponding answer)

i) Which of the following cell organelle is only found in animal cells?

a) Endoplasmic reticulum b) Mitochondria c) Cell membrane d) Centrosome

ii) Assertion: Plants can live without special respiratory organs.

Reason: Every living cell in the plant is present very close to the plant surface which facilitates easy exchange of gases.

- a) Both assertion and reason are correct statements.
- b) Assertion is a correct statement and reason is incorrect statement.
- c) Assertion is an incorrect statement but the reason is a correct statement.
- d) Both are incorrect statements.

iii) _____ cells have very thick cell walls due to deposition of lignin.

a) Collenchyma b) Sclerenchyma c) Parenchyma d) Chlorenchyma

iv) Which of the following examples have stamens as shown in the following diagram?



a) Cotton

b) China rose

c) Pea

d) Bombax

v) The thin, inner layer of seed coat is called as _____.

- a) Testa b) Tegmen c) Hilum d) Micropyle

vi) Where is respiratory centre located in brain?

- a) Cerebellum b) Cerebrum c) Medulla oblongata d) Pons

vii) Which of the following is the albuminous seed?

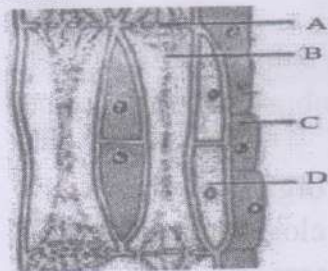
- a) Gram b) Pea c) Mustard d) Millet

viii) Statement A – Glycolysis occurs in mitochondria.

Statement B – Kreb's cycle occurs in cytoplasm.

- a) Statement A is true, Statement B is false.
b) Statement A is false, Statement B is true.
c) Statement A and Statement B, both are true.
d) Statement A and Statement B, both are false.

ix) The following diagram represents L.S. of phloem, Identify the Companion cells.



- a) A b) B c) C d) D

x) Which one of the following is one of the characteristics of wind-pollinated flowers?

- a) The flowers are large. b) The stigma is sticky.
c) Pollen grains are light, dry and smooth. d) The flower produce nectar

xi) Assertion: A two year old child has Kwashiorkor.

Reason: He has a deficiency of Carbohydrates, Proteins and fats.

- a) Both assertion and reason are correct statements.
b) Assertion is a correct statement and reason is incorrect statement.
c) Assertion is an incorrect statement but the reason is a correct statement.
d) Both are incorrect statements.

xii) Which of the following is also known as voice box?

- a) Pharynx b) Larynx c) Nose d) Lungs

xiii) Which of the following is the correct dental formula for one –half of upper jaw in adults?

- a) 2 incisors, 1 canine, 2 premolars, 3 molars
- b) 2 canines, 1 incisors, 2 premolars, 3 molars
- c) 2 incisors, 1 canine, 2 molars, 3 pre-molars
- d) 2 incisors, 1 premolar, 2 canines, 3 molars

xiv) Statement A – Small intestine is longer than large intestine
Statement B – Small intestine is wider than large intestine.

- a) Statement A is true, Statement B is false.
- b) Statement A is false, Statement B is true.
- c) Statement A and Statement B, both are true.
- d) Statement A and Statement B, both are false.

xv) Which of the following tissues is mainly concerned with immunity?

- a) Ligaments
- b) Cartilage
- c) Lymph
- d) Bone

Q.2 Name the following:

(5)

- i) The supporting framework of the cell.
- ii) The tissue which is made up of spindle shaped or slender tapering cells which are uninucleated.
- iii) The manner in which the ovules are attached to the wall of the ovary.
- iv) A chemical used to check the presence of carbon-dioxide.
- v) The salivary gland located below the tongue.

Q.3 Complete the following correlation:

(5)

- i) Neural nervous tissue : Neurons :: Bone : _____.
- ii) Flower containing stamens: Staminate :: Flowers containing carpels : _____.
- iii) Self pollination : Autogamy :: Cross-pollination : _____.
- iv) Radicle : Root :: _____ : Shoot.
- v) Anaerobic respiration in plants : Ethanol :: Anaerobic respiration in animals : _____.

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

- i) The cell wall is semi-permeable.
- ii) The ligaments connect muscles to bone.
- iii) The corolla is non-essential whorl of the flower.
- iv) A new variety of flower can be produced by Cross pollination.
- v) The combination of carbon-dioxide and haemoglobin is called as carboxyhaemoglobin.

Q.5 Match the following. (Write the correct pair in words) (5)

Column A	Column B
i) Iodine	a) Anaemia
ii) Vitamin C	b) Night- blindness
iii) Iron	c) Beri-beri
iv) Vitamin A	d) Scurvy
v) Vitamin B1	e) Goitre
	f) Osteomalacia

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

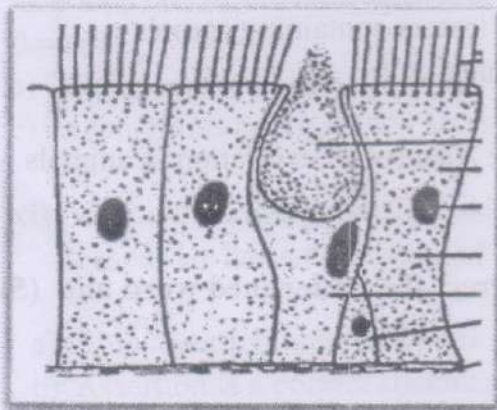
- i) Parenchyma cells, Epidermal cells, Cambium, Cork cells.
- ii) Cucumber, Maize Papaya, Pumpkin.
- iii) Maltose, Lactose, Galactose, Sucrose.
- iv) Pepsin, Trypsin, Amylopsin, Steapsin.
- v) Larynx, Pharynx, Oesophagus, Trachea.

SECTION B

(Attempt any 4 questions from this Section.)

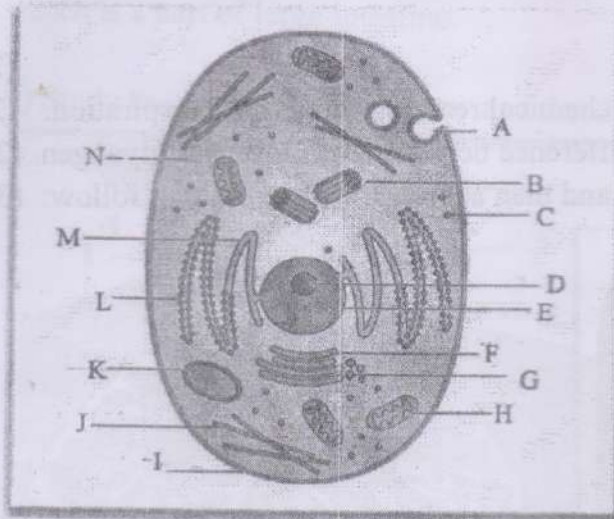
Q.7 Answer the following: (10)

- i) Differentiate between Prokaryotic cell and Eukaryotic cell based on their DNA. (1)
- ii) Give reason – Nucleus is the most important part of the cell. (2)
- iii) Where are nectaries located in flower? Give one example of flower where nectaries are prominently seen. (2)
- iv) Study the diagram given below and then answer the question that follow: (2)



- a) Identify the above tissue.
- b) Explain its function with the help of an example.

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

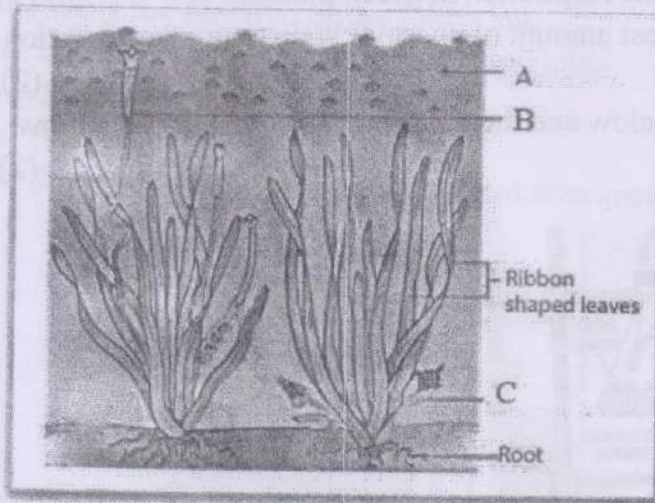


- Which type of a cell is shown in the above diagram?
- Give reason for the above answer.
- Label F and write its function.

Q.8 Answer the following:

(10)

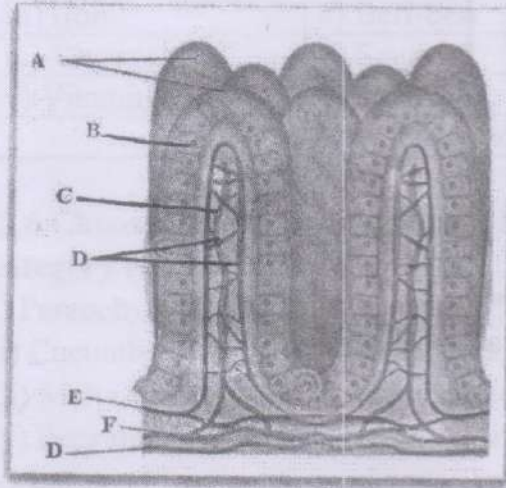
- Differentiate between Areolar tissue and Adipose tissue based on their function. (1)
- What is the role of bile in the process of digestion? (2)
- Study the diagram given below and then answer the question that follow: (2)



- Which pollinating agent is used the above plant?
- Label A and B
- Give reason – Seeds sown very deep in soil fail to germinate. (2)
- Draw a neat labelled diagram of Neuron. (Label any four parts) (3)

Q.9 Answer the following: (10)

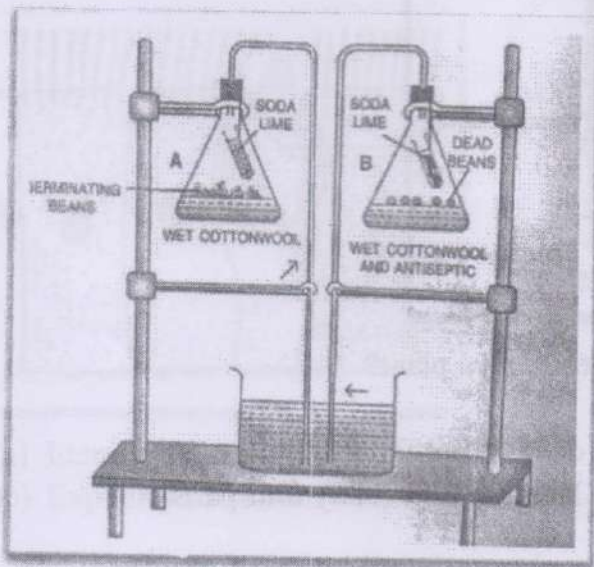
- i) Define: Dichogamy. (1)
- ii) Explain the two types of Calyx. (2)
- iii) Define: Respiration. Write the chemical reaction for aerobic respiration. (2)
- iv) Write one similarity and one difference between Cellulose and glycogen. (2)
- v) Study the diagram given below and then answer the question that follow: (3)



- a) Identify the above structure.
- b) Label and Write the function of C.
- c) Label B. Why there is only single layer of these cells?

Q.10 Answer the following: (10)

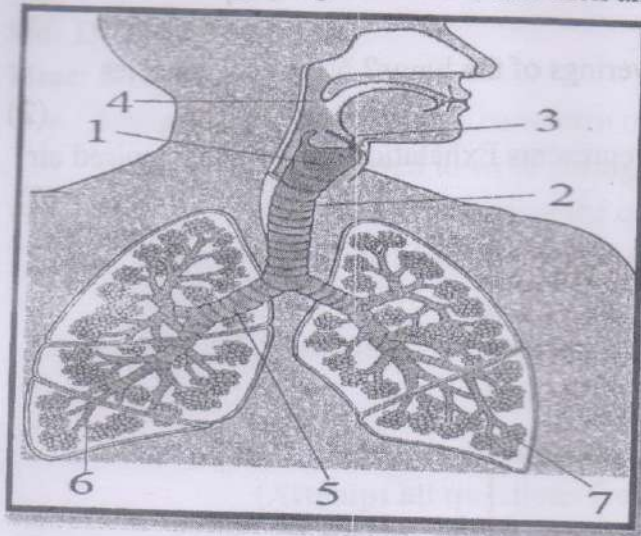
- i) Why is it difficult to demonstrate respiration in green plants? (1)
- ii) Which nutrient produces highest amount of energy? Write any other function of this nutrient. (2)
- iii) Study the experiment given below and then answer the question that follow: (2)



- a) What is the purpose of soda -lime?
- b) Why there is rise in water level in bent tube connected to flask A?

iv) Write the three sub-divisions of large intestine. Name the vestigial organ which is a part of large intestine. (2)

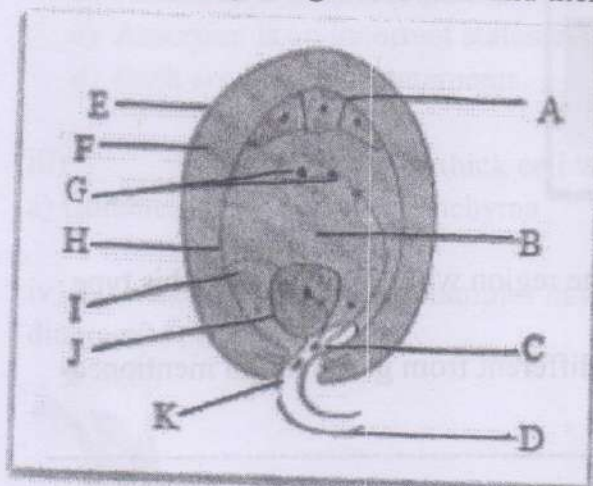
v) Study the diagram given below and then answer the question that follow: (3)



- Label and Name the part where actual diffusion of gases take place.
- Name the part marked as 5.
- List the four major parts of respiration in human beings.

Q.11 Answer the following:

- Differentiate between Pharynx and Larynx based on their position. (1)
- Which enzyme is secreted in mouth? Write its function. (2)
- Write the function of the following: (2)
 - C-shaped rings in Trachea
 - Epiglottis.
- Define the following: (2)
 - Peristalsis
 - Pylorus
- Study the diagram given below and then answer the question that follow: (3)

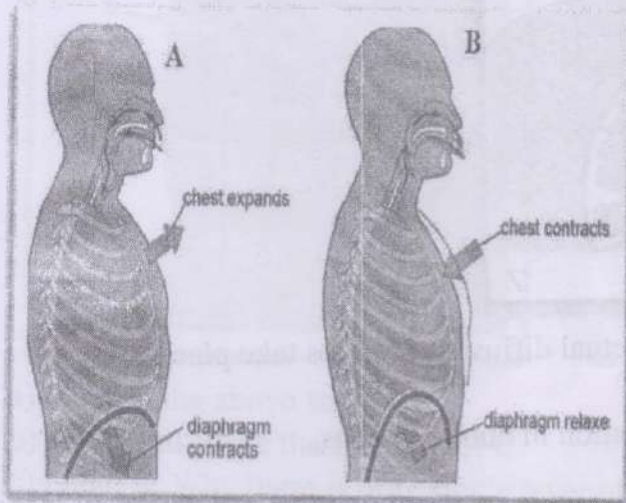


- Identify the above diagram.
- Write the function of F.
- Label A and J.

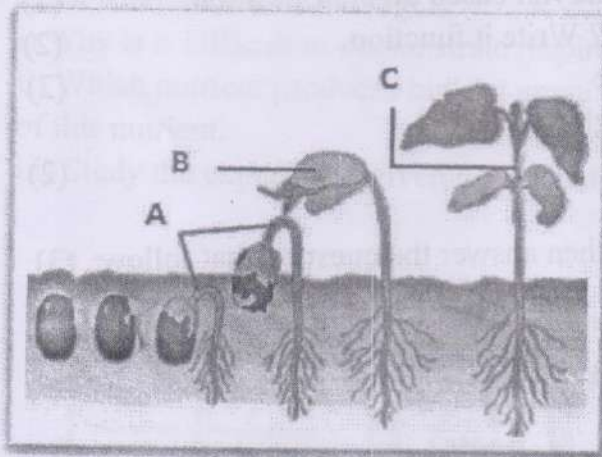
Q.12 Answer the following:

(10)

- i) Why does person feel breathless at higher altitude? (1)
- ii) Write the function of the following with respect to Maize grain. (2)
 - a) Endosperm
 - b) Coleoptile.
- iii) Which are the membranous coverings of the lungs? Name the muscles present around the lungs. (2)
- iv) Which of the following figures represents Exhalation? How does expired air differ from inspired? (2)



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



- a) Identify the type of germination.
- b) Write the Label and the name of the region which elongates in this type of germination.
- c) How other type of germination is different from germination mentioned by you in a)?