

# Second Term Exam : 2024-25

Std. : 11th

Subject : Biology

Marks : 80

## General Instructions -

The question paper consist of 31 questions is divided into four sections namely A, B, C & D.

- i) Section 'A' : Q. No. 1 contains 10 multiple choice types of questions carrying one mark each. Q. 2 contains 8 very short answer types of questions carrying one mark each.
- ii) Section 'B' : Q. No. 3 to 14 contains 12 short answers-I type of questions carrying two marks each. Attempt any Eight questions.
- iii) Section 'C' : Q. No. 15 to 26 contain 12 short answer-II type questions carrying three marks each. Attempt any Eight questions.
- iv) Section 'D' : Q. No. 27 to 31 contain 5 long answer types of questions carrying four marks each. Attempt any three questions.
- v) Figures to right indicate full marks.
- vi) Start each section on new page.
- vii) For each MCQ the correct answer must be written along with its alphabet
- viii) Evaluation of each MCQ would be done for the first attempt only.
- ix) Draw neat, labeled diagram whenever necessary.

## Section 'A'

Q. 1 Select and write correct answer.

[10]

- i) Collenchyma is a type of \_\_\_\_\_ tissue.  
a) living                      b) dead                      c) living and dead                      d) none of above
- ii) Underground runner is known as \_\_\_\_\_  
a) sucker                      b) bulb                      c) trailer                      d) offset
- iii) The study of structure and arrangement of tissue is called as \_\_\_\_\_  
a) anatomy                      b) histology                      c) microbiology                      d) morphology
- iv) Cockroach has \_\_\_\_\_ type of circulatory system.  
a) open                      b) close                      c) open and close                      d) none of above
- v) Kranz anatom observe is \_\_\_\_\_ plants.  
a) C4-plants                      b) C5-plants                      c) C3-plants                      d) none of above



- vi) The parts of the legs of cockroach are called \_\_\_\_\_  
a) podomeres      b) tarsals      c) earpals      d) tergae
- vii) \_\_\_\_\_ is not required for Hill's reaction.  
a) Sunlight      b) Chlorophyll      c) Water      d) CO<sub>2</sub>
- viii) The largest gland in the human body is \_\_\_\_\_  
a) pancreas      b) liver      c) salivary glands      d) thyroid
- ix) Yellow colour of urine is due to presence of \_\_\_\_\_  
a) uric acid      b) chloesterol      c) urochrome      d) urea
- x) Muscle fatigue is due to accumulation of \_\_\_\_\_  
a) pyruvic acid      b) lactic acid  
c) malic acid      d) succinic acid

**Q. 2 Answer the following questions.****[08]**

- i) What is arthrology?
- ii) Which is the structural and functional unit of kidney?
- iii) What is meant by dentition?
- iv) Which is the first stable compound of Kreb's cycle?
- v) Give two examples of CAM plants.
- vi) What are gonapophyses?
- vii) What is a cartilage?
- viii) What is placentation?

**Section 'B'****Attempt any Eight.****[16]**

- Q. 3 Give the function of Phloem.
- Q. 4 Give the distinguish between Pacemose inflorescence and Cymose inflorescence.
- Q. 5 What is phyllotany? Give the significance of phyllotany.
- Q. 6 Explain types of glands.
- Q. 7 What is ganglion?



Q. 8 Complete the following table :

Type of pigment	Colour
(i) Chlorophyll	_____
(ii) _____	orange red

- Q. 9 What is glycolysis? Where is takes place?
- Q. 10 Write a note on Kwashiorkor.
- Q. 11 Write note on ammonotelism.
- Q. 12 Enlist the types of freely moveable joints.
- Q. 13 Draw the diagram of stomata and label it.
- Q. 14 ATP is called energy currency of the cell. Give reason.

### Section 'C'

**Attempt any Eight.**

[24]

- Q. 15 What is Arthritis? Describe the different types of arthritis in short.
- Q. 16 Write the distinguish between Photosynthesis and Respiration.
- Q. 17 Draw neat labelled diagram of Human Excretory System.
- Q. 18 Nucleus is master cell organelle. Justify.
- Q. 19 Match the pairs :

Column 'A'	Column 'B'
(i) Fusiform root	(a) Ginger
(ii) Fasciculated tuberous root	(b) Garlic
(iii) Scaly bulb	(c) Radish
(iv) Rhizome	(d) Asparagus
(v) Stolon	(e) Opuntia
(vi) Phylloclade	(f) Mentha



- Q. 20 With the help of labelled diagram, describe the structure of areolar connective tissue.
- Q. 21 Define absorption, assimilation and egestion
- Q. 22 Describe the structure and function of kidney.
- Q. 23 Write down significance of Respiration.
- Q. 24 In short describe factors affecting photosynthesis.
- Q. 25 Give the systematic position of cockroach with reason.
- Q. 26 Explain Osteoporosis.

### Section 'D'

**Attempt any Three.**

**[12]**

- Q. 27 With the help of diagram explain structure of multipolar neuron.
- Q. 28 Give diagrammatic representation of glycolysis.
- Q. 29 Explain digestive system of cockroach.
- Q. 30 Describe structure of Femur.
- Q. 31 Enlist character of Arthropoda.

