

General Instructions :-

The question paper is divided into four sections.

1. **Section-A** : Q.No. 1 contains Seven multiple choice type of questions carrying one mark each.
 - i) For each multiple choice type of questions it is mandatory to write the correct answer along with its alphabet. eg. a) / b) / c) / d) etc. No marks shall be given if ONLY the correct answer or alphabet of the correct answer is written.
 - ii) In case of MCQ, evaluation will be done for first attempt only.
- Q.No.2 contains Seven very short answers type of questions carrying one mark each.
2. **Section-B** : Q.No. 3 to Q.No. 13 are short answer type of questions carrying two marks each.
3. **Section-C** : Q.No.14 to Q.No.19 are short answer type of questions carrying three marks each.
4. **Section-D** : Q.No.20 to Q.No.23 are long answer type of questions carrying four marks each.
5. Begin the answer of each section on a new page.

Section - A**Q.1 Select and write the correct answer.****7**

- i) _____ epithelial tissue is also called as pavement epithelium.
 - a) Ciliated
 - b) Squamous
 - c) Seneory
 - d) Glandular
- ii) Bones are hollow in class _____ to reduce body weight.
 - a) Reptilia
 - b) Aves
 - c) Pisces
 - d) Amphibia
- iii) The rhythmic wave of contraction and relaxation of the muscle of oesophagus is called _____.
 - a) thecodont
 - b) papillae
 - c) peristalsis
 - d) egestion
- iv) Stomach of cockroach is also called as _____.
 - a) mesenteron
 - b) ventriculus
 - c) receptacle
 - d) proctadaeum
- v) Sheathing leaf base is seen in _____.
 - a) Maize
 - b) Sunflower
 - c) China Rose
 - d) Fern
- vi) _____ ensures continuity of race.
 - a) Growth
 - b) Response to stimuli
 - c) Reproduction
 - d) Metabolism
- vii) In _____ the seeds are enclosed within the ovary.
 - a) Angiosperms
 - b) Pteridophyta
 - c) Gymnosperms
 - d) Bryophyta

Q. 2 Answer the following question.

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- i) What is ageing?
- ii) What is the study of teeth with respect to their number, arrangement and development known as?
- iii) Define placentation.
- iv) Name the class of chordate animal in which exoskeleton is absent.
- v) Name the part of carpel that receives pollen grains during pollination.
- vi) Which class of animals are called first true terrestrial vertebrates?
- vii) Define metabolism.

Section - B**Attempt any Eight.**

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- Q.3** Write short note on Calyx.
- Q.4** Name the 2 sphincters found in human stomach.
- Q.5** Name the phylum and class to which cockroach belongs.
- Q.6** Angiosperms show heteromorphic alternation of generation. Explain.
- Q.7** Draw a neat labelled diagram of a typical flower.
- Q.8** Complete the following table.

Type of sporangia	Common Name
i) Megasporeangia	_____
ii) Microsporeangia	_____

- Q.9** Distinguish between Chondrichthyes and Osteichthyes.
- Q.10** Give 2 examples of taxonomical aids used to study diversity in organisms.
- Q.11** Define the terms :
a) Cohesion
b) Adhesion
- Q.12** Draw a neat labelled diagram of ciliated epithelial tissue.
- Q.13** Enlist any 2 characters of class Mammalia.

Section - C**Attempt any Four.**

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- Q.14** Describe the structure of human pharynx.
- Q.15** Complete the following.

Floral whorls	Individual Members
i) Androecium	_____
ii) _____	Sepals
iii) Corolla	_____

- Q.16** Distinguish between Dicotyledonae and Monocotyledonae.

Q.17 Match the following.

Nerves from ganglia of CNS in cockroach	Receiving organs
1) Cerebral ganglia	a) Wings
2) Sub - oesophagial ganglion	b) Eyes
3) Thoracic ganglia	c) Maxillae

Q.18 Describe the types of neuron on the basis of their function.

Q.19 Match the following.

Insertion type	Condition of Ovary
1) Perigyny	a) Superior
2) Epigyny	b) Semi - superior, Semi - inferior
3) Hypogyny	c) Inferior

Section - D

Attempt any Two.

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Q.20 Describe the structure of a multipolar neuron.

Q.21 Describe the 4 types of aestivation seen in flowers.

Q.22 Explain the structure of small intestine.

Q.23 Describe the 4 parts of foregut of a cockroach.
