

COMMON QUARTERLY EXAMINATION - 2022

Standard - XI
BIOLOGY

Reg.No.

Marks: 70

Time: 3.00 hrs.

Marks: 35

BIO - BOTANY

PART - I

Note : i) Answer all the questions. ii) Choose the most suitable answer from the given four alternatives and write the option code and the corresponding answer: 8×1=8

1. _____ cause late blight disease of potato.
 - a) Albugo Candida
 - b) Phytophthora infestance
 - c) Colletrichum Falcatum
 - d) Helminthosporium orizae
2. Which of the following represents gametophytic generation in pteridophytes.
 - a) Prothallus
 - b) Thallus
 - c) Cone
 - d) Rhizophore
3. The conditions in which bisexual and unisexual flowers occur in same plant is called _____.
 - a) Monoceous
 - b) dioceous
 - c) polygamous
 - d) Hermophroditic
4. Match the following:

1. Pitcher plant	-	i)	Utricularia
2. Bladdu wort	-	ii)	Bignonia unguisati
3. Phyllode	-	iii)	Nepanthus
4. Cat's nail	-	iv)	Parkinsonia

a, iii) i) ii) iv) b, iii) i) iv) ii) c, ii) i) iii) iv) d) i) iii) ii) iv)
5. Flowers are Zygomorphic in
 - a) Ceropegia
 - b) Thevetia
 - c) Datura
 - d) solanum
6. Many cells function properly and divide mitotically even though they do not have
 - a) Plasma membrane
 - b) cytoskeleton
 - c) Mitochondria
 - d) Plastids
7. The Paring of homologous chromosomes on merosis is known as
 - a) Bivalent
 - b) synapsis
 - c) Disjunction
 - d) Synergids
8. The most basic amino acid is
 - a) Argenine
 - b) Histidine
 - c) glycine
 - d) glutamine

PART - II

Note : Answer any four of the following.

4×2=8

9. Define - Plasmid
10. What is plectostele - give example.
11. Differentiate petiolate and sessile leaves.
12. Draw and label the structure of stamen'.
13. Write 3 classes of Benthem , Hooker classification.
14. Bring out the significance of Transmission Electron - microscope.

PART - III

Note : Answer any three of the following (Q.no.19 is compulsory):

3×3=9

15. Write Merits and demerits of five kingdom of classification.
16. What is Amber ? Which group of plants produce Amber?
17. Write the similarities and difference of Aavecennia and Trapa.
18. Write the properties of Enzyme.
19. Draw and label the structure of Plant cell.

PART - IV

2×5=10

Note : Give Detailed answer for the following.

20. Differentiate Gymnosperms and Angiosperms. (OR)
21. Explain different types of placentation with example. (OR)
21. Give the floral character of clitoria ternata. (OR)
- Write about Pachytene and Diplotene of Plant cell division.

Marks: 35

BIO - ZOOLOGY

SECTION - A

8×1=8

I. Choose the write the correct answer with option code.

- Who coined the term biodiversity?
a) Walter Rosen b) A G Tansley c) Aristotle d) AP de Candole
- Pneumatic bones are seen in
a) Mammalia b) Aves c) Reptilia d) Sponges
- The ciliated epithelium lines the
a) skin b) Digestive tract c) Gall bladder d) Trachea
- Kidney of Frog is
a) Archinephros b) Pronephros c) Mesonephros d) Metanephros
- Which one is incorrectly matched?
a) Pepsin - stomach b) Renin - liver
c) Trypsin - intestine d) Ptyalin - Mouth
- An instrument used to measure the volume of air involved in breathing movement
a) Spirometer b) Sphygmomanometer c) Ammeter d) Glucometer
- Lymph is colourless because
a) WBC are absent b) WBC are Present
c) Haemoglobin is absent d) RBC are Present
- The hormone which helps in the reabsorption of water in kidney tubule is
a) Cholestykinin b) angiotensin II
c) antidiuretic hormone d) Pancreazymin

SECTION - B

4×2=8

II. Write answer for any four questions:

- List any four salient features of the family felidae.
- Write the excretory organs in Phylum Arthropoda.
- Why blood is considered as a typical Connective tissue?
- Write any four differences between a Frog and Toad.
- Define sphincter of oddi.
- What is Micturition.

SECTION - C

III. Write answer for any three questions (Q.No.19 is compulsory): 3×3=9

- Why do you call cockroach a pest?
- Bile juice contains no digestive enzymes yet it is important for digestion. Why?
- What is Methaemoglobin?
- What are the three layers of blood vessels?
- Draw and label the L.S of kidney.

SECTION - D

IV. Write answers for following questions.

2×5=10

- a) What is symmetry? write a note about its types? (OR)
- b) Describe the digestive system of earthworm.
21. a) What is blood Coagulation? Write the schermatic representation of blood coagulation. (OR)
- b) Tabulate the events in inspiration and Expiration.