

A COMMON QUARTERLY EXAMINATION - 2023

Time: 3.00 hrs.

Standard - XI
BIOLOGYReg.No.

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Marks: 70

PART - I [BIO - BOTANY]

Marks: 35

PART - I**I. Answer all the questions:****8×1=8**

1. _____ a cyanobacterium imparts red colour to Red sea
 a) Trichodesmium erythraeum b) Chlamydomonas
 c) Chlorella d) Streptomyces griseus
2. Which of following represents gametophytic generation in pteridophytes?
 a) Prothallus b) Thallus c) Cone d) Rhizophore
3. _____ is the example for flattened phylloclade.
 a) Opuntia b) Casuarina c) Euphorbia d) Atalantia
4. Vexillary aestivation is characteristic of the family
 a) Fabaceae b) Asteraceae c) Solanaceae d) Brassicaceae
5. Which of the following is a flowering plant with nodules containing filamentous nitrogen fixing micro organisms?
 a) Crotalaria juncea
 b) Cycas revoluta
 c) Cicer arietinum
 d) Casuarina equisetifolia
6. The two subunits of ribosomes remain united at critical ion level of
 a) Magnesium b) Calcium c) Sodium d) Ferrous
7. The Pairing of homologous chromosomes on meiosis is known as
 a) Bivalent b) Synapsis c) Disjunction d) Synergids
8. The most basic aminoacids is
 a) Arginine b) Histidine c) Glycine d) Glutamine

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PART - II**II. Answer any four questions.****4×2=8**

9. Differentiate homoiomerous and heteromerous Lichens.
10. What is Actinostele? Give example.
11. Write three important parts of a Leaf.
12. Bring out the significance of Transmission Electron Microscope.
13. Draw and Label the structure of 'Lampbrush chromosome'.
14. Write any two importance of Enzymes.

PART - III**III. Answer any three questions. (Q.no.19 is compulsory)****3×3=9**

15. Give a general account on Lichens?
16. Draw the floral diagram and write the floral formula of Hibiscus Rosa Sinensis.
17. Distinguish between Prokaryotes and eukaryotes.
18. Write any three significance of mitosis.
19. Draw and Label the structure of mitochondria.

PART - IV**IV. Answer all the questions briefly.****2×5=10**

20. Write the Economic importance of Bacteria.

(OR)

Differentiate Gymnosperms from Angiosperms.

21. Give the floral characters of clitoriaternatea.

(OR)

Write the characteristic features of DNA.

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PART - II [BIO - ZOOLOGY]

Marks: 35

PART - I

I. Choose the correct Answer:

8×1=8

- In which year Charles Darwin's book 'Origin of Species' was proposed?
 - 1895
 - 1885
 - 1859
 - 1855
- Which of the following is correctly matched?
 - Physalia - Portuguese man of war
 - Pennatula - Sea fan
 - Adamsia - Sea pen
 - Gorgonia - Sea Anemone
- Prevention of substances from leaking across the tissue is provided by
 - Tight junction
 - Adhering junction
 - Gap Junction
 - Elastic junction
- In the male reproductive system of earthworm, a pair of prostates glands lies in the
 - 17th - 18th segments
 - 18 - 19th segments
 - 19 - 20th segments
 - 20 - 21st segments
- Match :

Column I	Column - II
P) Lipase	i) Starch
Q) Pepsin	ii) Casein
R) Renin	iii) Protein
S) Ptyalin	iv) Lipid

 - P - iv, Q - ii, R - i, S - iii
 - P - iii, Q - iv, R - ii, S - i
 - P - iv, Q - iii, R - ii, S - i
 - P - iii, Q - ii, R - iv, S - i
- Vital capacity is
 - TV + IRV
 - TV + ERV
 - RV + ERV
 - TV + IRV + ERV

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7. At the venous end of the capillary bed, the osmotic pressure is
- Greater than the hydrostatic pressure
 - Result is net outflow of fluids.
 - Result in net absorption of fluids
 - No change Occurs.
8. Malpighian tubules, remove excretory products from
- Mouth
 - Oesophagus
 - Haemolymph
 - alimentary canal .

PART - II**II. Answer any four of the following:****4×2=8**

- Why are Spongin and spicules important to a sponge?
- Write the characteristic features of columnar epithelium?
- Differentiate between Peristomium and Prostomium in earthworm?
- Write the symptoms of Pneumonia.
- What might be the effect on a person whose diet has less iron content?
- What is meant by stenohaline animals?

PART - III**III. Answer any 3 and question no.19 is compulsory question.****3×3=9**

- List three features that characteristic bony fishes.
- Write about Alzheimer's disease.
- What is meant by obesites.
- Write any three primary functions of the respiratory system.
- Distinguish between mitral value and semilunar value.

PART - IV**IV. Answer all the questions:****2×5=10**

20. Explain the Respiratory system of Frog.

(OR)

Describe the digestive glands present in human beings.

21. Write the Events in Inspirational Expiration of human beings.

(OR)

Draw a diagram and explain the human circulatory system.
