

# COMMON HALFYEARLY EXAMINATION - 2024

Standard - XI  
BIOLOGY

Reg.No.

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Marks:70

Time: 3.00 hrs.

BIO - BOTANY

Marks:35

8×1=8

## I. Choose the correct answer:

- In unisexual plants, sex can be changed by the application of
  - Ethanol
  - Cytokinin
  - ABA
  - Auxin
- Number of ATP formed during Kreb's cycle.
  - 24
  - 6
  - 4
  - 1
- The element which is not remobilized?
  - Phosphorus
  - Potassium
  - Calcium
  - Nitrogen
- Watson and Crick model of double stranded DNA is
  - A
  - C
  - H
  - B
- A true fruit is the one where
  - Only ovary of the flower develops into fruit
  - Ovary and Calyx of the flower develops into fruit
  - Ovary, Calyx and thalamus of the flower develops into fruit
  - All floral euhorls of the flower develops into fruit
- Select the Mismatch Pair:
  - Musa - Uni Costate
  - LabLab - Trifoliate
  - Acalyha - Leaf Mosaic
  - Allamanda - Ternate Phyllotaxy
- Spiral shaped Chloroplast seen in \_\_\_\_\_ Algae.
  - Chara
  - Chlamydomonas
  - Zygnema
  - Spirogyra
- Which Chlorophyll molecule doesnot haave a Phytol tail?
  - Chl - a
  - Chl - b
  - Chl - c
  - Chl - d

## II. Answer any four of the following:

4×2=8

- Write short notes on bolting.
- Write the overall equation of Respiration.
- What is Brachysclerids.
- Write the characters of stem.
- Draw and label the open Vascular bundle.
- Differentiate homeomerus and heteromerus Lichen.

## III. Answer any three of the following. Question No. 18 is compulsory. 3×3=9

- Write the difference between Photorespiration and dark respiration.
- What is the role of Nitrogenase enzyme in in Nitrogen fixation.
- What is the importance of Mitosis.
- Draw and label the structure of plant cell.
- Write the similarities and differences between Radical buds and Foliar buds.

## IV. Answer in Detail:

2×5=10

- Write the Physiological effects of Cytokinin? (OR)
  - Write the difference between C<sub>3</sub> and C<sub>4</sub> cycle.
- Write the botanical description of Datura Metal. (OR)
  - Explain the Modification of tap root.

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## BIO - ZOOLOGY

XI - BIOLOGY

Marks:35

8×1=8

**I. Choose the correct Answer:**

- The prokaryotes which have the ability to live in Salty environment.  
a) extremophiles    b) Halophiles    c) Methanogens    d) Pathgen
- Which of the following is correctly matched  
a) Physalia - Portugese man of war    b) Pennatula - Sea fan  
c) Adamsia - Sea pen    d) Gorgonia - Sea anemone
- Which of the following is not involved in blood clotting.  
a) Fibrin    b) Calcium    c) Platelets    d) Bilirubin
- Prevention of substances from Leaking across the tissue is provided by  
a) Tight Junction    b) Adhering Junction    c) Gap Junction    d) Elastic Junction
- Absorption of glycerol, fatty acid and monoglycerides takes place by  
a) Lymph Vessels with in Villi    b) Walls of Stomach  
c) Colon    d) Capillaries with in Villi
- The respiratory centre is present in the  
a) Medull Oblongata    b) hypothalamus    c) Cerebellum    d) Thalamus
- Which of the following gland is related with immunity  
a) Pineal gland    b) Adrenal gland    c) Thymus    d) Parathyroid gland
- Rearing of honey bee is called  
a) Sericulture    b) Lac culture    c) Vermiculture    d) Apiculture

**II. Answer any four of the following questions:**

4×2=8

- What is Phylogenetic classification?
- What are flame cells?
- Head of Cockroach is called hypognathous. Why?
- Name the Salivary glands in human mouth?
- What is Tetany?
- Name the ear ossicles in middle ear of man?

**III. Answer any three of the following.****19th Question compulsory.**

3×3=9

- Explain Methaemoglobin?
- How is Urea formed in the human body?
- What are the different type of rib bones the form the rib cage.
- What are the advantages of artificial insemination?
- Explain Cardio Pulmonary Resuscitation (CPR)

**IV. Answer all the questions:**

2×5=10

- What is an epithelium? Enumerate the characteristic features of different epithelia.

(OR)

✓ Differentiate the events in Inspiration and Expiration.

- Give the economic importance of Fishes.

(OR)

Explain differences between rod and cone cells.