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## COMMON SECOND REVISION TEST – 2023

Standard XI

Reg.No. : 

## BIOLOGY

Time: 3.00 hrs.

Part - I

Marks: 70

Bio-Botany (35 marks)

## Section - 1

## I. Choose the correct answer:

8 x 1 = 8

- Identify the incorrect statement about the Gram Positive bacteria
  - teichoic acid absent
  - high percentage of peptidoglycan is found in cell wall
  - cell wall is single layered
  - lipopolysaccharide is present in cell wall
- The haploid number of chromosome for an angiosperm is 14, the number of chromosome in its endosperm would be
  - 7
  - 14
  - 42
  - 28
- Choose the correct pair
  - Spike - Acalypha
  - Spikelet - Paddy
  - Caktin - Achyranthus
  - Spadix - Wheat
- Name the enzyme used for the preparation of biological detergents.
  - Bacterial protease
  - Bacterial glucose isomerase
  - Fungal lactase
  - Amylases
- Conjoint Collaterally closed vascular bundles are found
  - Dicot stem
  - Dicot root
  - Monocot stem
  - Monocot root
- Lichens are the indicators of \_\_\_\_\_ pollution
  - SO<sub>2</sub>
  - CO<sub>2</sub>
  - Lead
  - Cadmium
- Name the bacteria involved in Ammonification
  - Nitrosomonas
  - Bacillus ramisus
  - Pseudomonas
  - Nitrobacter
- What type of transpiration is possible in the Xerophyte Opuntia
  - Stomatal
  - Lenticular
  - cuticular
  - all the above

## Section - 2

## II. Answer any 4 questions:

4 x 2 = 8

- Write the living characters of virus
- Name the three classes of Bryophytes.
- Define guttation.
- What you mean by 'Richmond Lang effect'?
- What is Agent Orange?
- Differentiate palisade parenchyma from spongy parenchyma.

## Section - 3

## III. Answer any 3 questions. (Q.No.17 is compulsory)

3 x 3 = 9

- Describe the structure of Cyathium with a neat diagram
- Write the steps involved in the preparation of herbarium.

For answers search this (@vskteaches) in YouTube.

17. Draw a neat labelled diagram of a chloroplast.
18. Write short notes on the structure of tyloses.
19. Write the properties of enzymes.

**Section - 4****IV. Answer the following question.****2 x 5 = 10**

20. a) Give an account of the stages of mitotic phase of cell division with a neat diagram.

**(OR)**

- b) Write the differences between prokaryotic and Eukaryotic cells.
21. a) Explain the reactions taking place in mitochondrial inner membrane.

**(OR)**

- b) Write about the tap root modification with suitable diagrams.

**Part - II****Bio-Zoology (35 marks)****Section - 1****I. Choose the correct answer:****8 x 1 = 8**

1. Who introduced the term Trinomial nomenclature.
  - a) Linnaeus
  - b) Darwin
  - c) Huxley
  - d) Weismann
2. How many times a nymph undergoes to reach the adult cockroach.
  - a) 12 times
  - b) 13 times
  - c) 11 times
  - d) 14 times
3. Identify the one not belongs to enterocoelomates.
  - a) Arthropoda
  - b) Echinoderms
  - c) Hemichordates
  - d) Chordates
4. Which Phylum possess the Lasso cells
  - a) Cnidaria
  - b) Ctenophora
  - c) Porifera
  - d) Annelida
5. Choose the wrong statement among the following
  - a) In earthworm, a pair of male genital pore is present
  - b) Setae help in locomotion of earthworm
  - c) Muscular layer in the body wall of earthworm is made up of circular and longitudinal muscles
  - d) Typhlosole in the part of the intestine of earthworm
6. Which of the following hormones stimulate the production of pancreatic juice and bicarbonates
  - a) Angiotensin and epinephrine
  - b) Gastrin and insulin
  - c) Cholecystokinin and secretion
  - d) insulin and glucose
7. After a long deep breath, we do not respire for some second due to
  - a) more CO<sub>2</sub> in the blood
  - b) more O<sub>2</sub> in the blood
  - c) less CO<sub>2</sub> in the blood
  - d) less O<sub>2</sub> in the blood
8. Assertion: Nuptial flight is a unique flight taken the queen bee followed by several drones  
Reason: The Queen Bee produces a chemical substances attracted the drones in that area and the mating takes place
  - a) Assertion and reason is correct but not related
  - b) Assertion and reason is incorrect but related

For answers search this (@vskteaches) in YouTube.



- c) Assertion and reason is correct but related
- d) Assertion and reason is incorrect but not related

**Section - 2**

**II. Answer any 4 questions:**

4 x 2 = 8

- 9. Write about Ethology of Taxonomical tools.
- 10. Draw and label the parts of simple columnar epithelium
- 11. What are the different names of monocytes based in its places
- 12. What are aquaporins?
- 13. Define Aneurysm
- 14. Mention the location and functions of Palmaris muscle

**Section - 3**

**III. Answer any 3 questions.**

3 x 3 = 9

- 15. Pineal gland is an endocrine gland. Write about its role.
- 16. What is Duchene Muscular Dystrophy?
- 17. Reptiles produce little hypotonic urine, marine fishes hypo osmotic and Amphibians hypoosmotic but mammals produces hypoosmotic - Give reason
- 18. Bile juice contain no digestive enzymes. yet It is important for digestion. Why?
- 19. Write about the types of prawn fishery

**Section - 4**

**IV. Answer the following Question.**

2 x 5 = 10

- 20. a) Schematic representation of the various hormones in regulation of body fluid concentration

(OR)

- b) i) Disorders of the circulatory system (any 3)
- ii) Characteristic features of respiratory surface
- 21. a) How the heart, kidney and Gastro intestinal tract act partial endocrine glands

(OR)

- b) i) Write a note on Limbic system
- ii) Benefits of poultry farming

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For answers search this (@vskteaches) in YouTube.