

B COMMON HALFYEARLY EXAMINATION- 2023

Standard - XI

Time : 3.00 hrs

BIOLOGY

Marks: 70

BIO-BOTANY

Marks: 35

Part - I

I. Answer all the questions.

8×1=8

1) Identify the correctly matched pair

- | | | |
|------------------|---|--------------|
| a) Bacteria | - | Crown gali |
| b) Actinomycetes | - | Late blight |
| c) Fungi | - | Sandal spike |
| d) Mycoplasma | - | lumpy jaw |

Dr. S. VELU, M.Sc, M.Ed., Ph.D.,
P.G. ASST. IN ZOOLOGY
SRI DIVYA CHAITANYA MATRIC. HR. SEC.SCHOOL.
SHOLINGHUR - 631 102. RANIPET DISTRICT.

2) Virus infecting bacteria are called

- | | |
|---------------|------------------|
| a) Cyanophage | b) Bacteriophage |
| c) Zoophage | d) Mycophage |

3) The most stable RNA is

- | | | | |
|---------|----------|---------|---------|
| a) tRNA | b) dsRNA | c) rRNA | d) mRNA |
|---------|----------|---------|---------|

4) The compound which links Glycolysis and Krebs cycle is

- | | |
|----------------|------------------|
| a) Acetyl CoA | b) Succinic acid |
| c) Citric acid | d) Pyruvic acid |

5) One of the synthetic auxin in

- | | | | |
|--------|--------|-------|--------|
| a) IAA | b) IBA | c) GA | d) NAA |
|--------|--------|-------|--------|

6) The taxonomy which involves the similarities and dissimilarities among the immune system of different taxa is termed as

- | | |
|-----------------------|--------------------------|
| a) Serotaxonomy | b) Chemotaxonomy |
| c) Numerical taxonomy | d) Molecular systematics |

7) Which chlorophyll molecule does not have a phytol tail

- | | | | |
|----------|----------|----------|----------|
| a) Chl.a | b) Chl-b | c) Chl-c | d) Chl-d |
|----------|----------|----------|----------|

8) Bryophyllum and Dioscorea are example for

- | | |
|---------------------------|---------------------------|
| a) Foliar bud apical bud | b) Foliar bud cauline bud |
| c) Cauline bud apical bud | d) Cauline bud Foliar bud |

(2)

Part - II

XI BIOLOGY

Answer any four questions:-

4×2=8

- 9) What are the differences between porous wood and Non porous wood.
- 10) Write the floral formula of Datura meta
- 11) Define - Herbarium
- 12) Write the properties of water.
- 13) Define Ascent of Sap
- 14) Write the overall equation of Photosynthesis

Part - III

Answer any three questions. Question No.19 is compulsory:-

3×3=9

- 15) What is Monodelphus stamens? Give an example.
- 16) What is meant by Author citation? Give an example?
- 17) Write any 3 differences between dicot root and Monocot root.
- 18) Write short notes on Hydroponics.
- 19) Draw and label the parts of regions of root.

Part - IV

Answer all questions:-

2×5=10

- 20) a) Write the physiological effects of cytokinins.

[or]

- b) Write the differences between Sap wood and Heart wood.

- 21) a) Explain Nitrogen.

[or]

- b) Do you think shapes of chloroplast is unique for algae - Jusity your answer.

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(3)
BIO-ZOOLOGY
Part - I

XI BIOLOGY

Marks: 35

I. Answer all the questions:-

8×1=8

- 1) 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
- 2) Choose the incorrect sentence from the following
 - a) Bile Juice emulsifies the fat-
 - b) Chyme is a digestive acidic food in stomach
 - c) Pancreatic juice converts lipid into fatty acids and glycerol
 - d) Enterokinase stimulates the secretion of Pancreatic juice.
- 3) Asthma is caused due to
 - a) inflammation of bronchus and bronchioles
 - b) inflammation of bronchione
 - c) damage of diaphragm
 - d) infection of lungs
- 4) Kidney stones are produced due to deposition of uric acid and
 - a) Silicales
 - b) minerals
 - c) Calcium carbonate
 - d) Calcium oxalate
- 5) Acetabulum is located in
 - a) collar bone
 - b) hip bone
 - c) shoulder bone
 - d) thigh bone
- 6) All of the following are associated with myeline sheath except
 - a) Faster conduction of nerve impulses
 - b) Nodes of Ranvier forming gaps along the axon
 - c) Increased energy output for nerve impulse conduction
 - d) Saltatory conduction of action potential
- 7) Which one of the following statement is correct
 - a) Calcitonin and thymosin are thyroid hormones.
 - b) Pepsin and prolactin are secreted in stomach.
 - c) Secretin and rhodopsin are polypeptide hormones.
 - d) Cortisol and aldosterone are steroid hormones

(4)

XI BIOLOGY

- 8) Assertion: Nuptial flight is a unique flight taken the queenbee followed by Several drones

Reason: The queenbee produces a chemical substance called Pheromone. The drones in that area are attracted to the pheromone and then molting takes place.

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

Part - II

Note:- Answer any four questions:-

4×2=8

- 9) What is thermo acidophiles?
 10) Same epithelia are Pseudostratified what does this mean?
 11) What might be the effect on a person whose diet has less iron content?
 12) Cornea transplant in humans is almost never rejected. State the reason.
 13) Write the functions of (CCK) Cholecystokinin.
 14) Ischemic heart disease - define.

Part - III

Note:- Answer any three questions.

Question No.19 is compulsory:-

3×3=9

- 15) Write the characteristics that contributes to the success of reptiles on land.
 16) Differentiate between Peristomium and Prostomium in earthworm.
 17) What are the heart sounds? When and how are these sounds produced?
 18) Name the layers of adrehal cortex and mention their secretions.
 19) Draw and labelled Pearl formation.

Part - IV

Answer all questions:-

2×5=10

- 20) a) Tabulate five kingdom classification.

[or]

- b) List out Events in Inspiration and Expiration.

- 21) a) Write beneficial of Regular exercises.

[or]

- b) Explain about Hormones of neurohypophysis.

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