



BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

SAMPLE PAPER - 8 (SOLVED)

Bio Botany Part I

1. Identify the correct sequence regarding lytic cycle of viruses.

(A) Penetration (B) Adsorption (C) Assembly
(D) Synthesis

A. (ii), (i), (iv), (iii)

B. (iii), (i), (ii), (iv)

C. (ii), (iv), (i), (iii)

D. (i), (iv), (ii), (iii)

Answer: A



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2. Zygote meiosis is characteristic of

.

A. Marchantia

B. Fucus

C. Funaria

D. Chlamydomonas

Answer: D



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3. Pinus roots are in symbiotic relationship with

A. Blue green algae

B. Mycorrhiza

C. Euglena

D. Rhizobium

Answer: B



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4. Climbers are also called as

A. herbs

B. trees

C. vines

D. shrubs

Answer: C



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5. Arrangement of sepals and petals in flower bud is called

A. adhesion

B. aestivation

C. placentation

D. cohesion

Answer: B



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6. Cell cycle was discovered by

A. Singer & Nicholson

B. Prevost & Dumans

C. Schleider & Schwann

D. Boveri

Answer: B



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7. Parenchyma storing calcium carbonate crystals are called

- A. Leucoplasts
- B. Elaioplasts
- C. idioblasts
- D. Chromoplasts

Answer: C



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8. Which of the following is a free-living bacterium ?

A. Rhizobium

B. Clostridium

C. Escherichia

D. Cyanobacteria

Answer: B



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1. Distinguish between deoxyviruses and riboviruses.



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2. What is plant morphology ?



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3. What is continental flora?



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4. Define C-Value.



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5. Expand and Define TP.



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6. Mention the events of Photochemical phase of light reaction.



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Bio Botany Part Iii

1. Name some of the fossil rich sites of India.



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2. What is a liana ? Mention its importance.



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3. Enumerate the steps involved in herbarium preparation.



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4. Draw and label the open vascular bundle.



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5. When does an essential mineral is considered as a "toxic" ?



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Bio Botany Part Iv

1. Tabulate the economic importance of algae.

OR

Explain Datura metal in botanical terms. Draw floral diagram.



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2. What are the types of transpiration?



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Bio Zoology Part I

1. Entomology is concerned with the study of

..... .

A. Formation and properties of soil

B. Agricultural practices

C. Various aspects of human life

D. Various aspects of insect

Answer: D



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2. Which is the site of production of blood cells?

A. Cartilage

B. Bone marrow

C. Blood

D. plasma

Answer: B



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3. Match Column-I with Column-II and choose the correct option.

Column - I	Column - II
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P. Lipase	(i) Starch
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Q. Pepsin	(ii) Cassein
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R. Rennin	(iii) Protein
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S. Ptyalin	(iv) Lipid
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A. 1 - (ii), 2 - (i), 3 - (iv), 4 - (iii)

B. 1 - (i), 2 - (ii), 3 - (iii), 4 - (iv)

C. 1 - (iv), 2 - (iii), 3 - (i), 4 - (ii)

D. 1 - (iii), 2 - (i), 3 - (iv), 4 - (ii)

Answer: A



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4. ESV stands for

- A. Endocard Systolic Volume
- B. End Systolic Volume
- C. Endocard Sound Volume
- D. Endocard Sinoatrial Volume

Answer: B



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5. Which of the following statement is correct?

A. The descending limb of loop of Henle is impermeable to water.

B. The ascending limb of loop of Henle is permeable to water.

C. The ascending limb of loop of Henle is impermeable to water

D. The descending limb of loop of Henle is permeable to electrolytes

Answer: C



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6. Which of the following statements are incorrect?

A. Basal epithelial cells are sensitive portions of the taste

B. Basal epithelial cells are stem cells which divide and differentiate into new

gustatory cell

C. Gustatory hairs project from the tip of the gustatory cells

D. Gustatory cells are sensory portion of the taste

Answer: A



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7. Serum Calcium level is regulated by

.

A. Thyroxine

B. FSH

C. Pancreas Assertion is true, but reason is
false

D. Thyroid and Parathyroid

Answer: D



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8. Ca^{+} Metabolism is regulated by

A. ACTH

B. Thyroxin

C. Parathormone

D. Epinephrine

Answer: A



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9. What is Phylogenetic tree?



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Bio Zoology Part Ii

1. Write about Marbled cone snail.



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2. Differentiate the male and female cockroaches.



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3. Define Floating ribs.



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4. Write a note on Tetany.



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5. Explain the structure of the large intestine.



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Bio Zoology Part Iii

1. What is the need for classification?



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2. Distinguish between Diploblastic animals and triploblastic animals.



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3. Write a short note on connective tissue.



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4. Give the location of clitellum and spermathecal openings in *Lampito mauritii*.



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5. Define cross breeding.



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Bio Zoology Part Iv

1. Who proposed five kingdom classification?

Mention the five kingdoms.



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2. What are the benefits of regular exercise?



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