



BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

SAMPLE PAPER -2 (SOLVED)

Bio Botany Part I

1. Which of the following is a coprophilous fungi ?

A. Albugo

B. Entomophthora

C. Rhizopus

D. Pilobolus

Answer:



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2. Which one of the following statements is wrong?

- A. Cyanobacteria are also called blue-green alge
- B. Gloden algae are also called desmids
- C. Eubacteria are also called fase bacteria
- D. Phycomycetes also called algal fungi

Answer:



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3. After fertilization.modifies into seed.

A. ovary

B. ovule

C. carpel

D. stigma

Answer:



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4. DNA bar coding was introduced by

A. Stebbins

B. Hebert

C. Camp & Gilly

D. Darwin

Answer:



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5. Which is the largest of the internal membranes?

A. Golgi bodies

B. Endoplasmic reticulum

C. Tonoplast

D. Nuclear membrane

Answer:



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6. The chlorophyll pigment found in xanthophycean alge is

A. Chlorophyll b

B. Chlorophyll c

C. Chlorophyll d

D. Chlorophyll e

Answer:



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7. The term Auxin was coined by

A. Kogl. Smith

B. Darwin

C. F.W. Went

D. Kurosawa

Answer:



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8. ABA stands for

A. Absciscic acid

B. Ascorbic acid

C. Acetyl Butyric Acid

D. Acetic acid

Answer:



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Bio Botany Part Ii

1. What do you understand by "pinning " of phage ?



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2. Brown algae is characterised by the presence of



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3. Compare the stem nature of Corm and Rhizome



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4. What are axial parenchyma & Ray parenchyma ?



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5. State the law of minimum .



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6. Differentiate homoiomerous and heteromerous lichens.



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Bio Botany Part Iii

1. distinguish between prokaryotes and eukaryotes.



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2. Which types of plants develop tendril ? How does it help the plant ?



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3. Linnaeus classification is also called sexual system of classification. Why?



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4. Draw a labeled diagram of T.S. of Dicot leaf.



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5. Why TCA cycle is called so ?



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Bio Botany Part Iv

1. Draw a flow chart depicting the classification of fruits.



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2. Explain Ganong's Potometer experiment and its purpose.



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Bio Zoology Part I

1. Which class of protozoos is totally parasitic ?

A. Sporozoa

B. Mastigophora

C. Ciliate

D. Sarcodina

Answer:



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2. Linmulus belongs to class

A. Orychophora

B. Insect

C. Merostomata

D. Crustacea

Answer:



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3. Match the list I and list II :

Branch of Science	Field of Study
1. Mycology	(i) Study of birds
2. Ornithology	(ii) Study of reptiles
3. Herpetology	(iii) Study of fishes
4. Lethylogy	(iv) Study of fungi

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

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

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

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

Answer:



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4. EDV stands for

A. End digestion volume

B. End diastolic volume

C. End decrease volume

D. End digestion valve

Answer:



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5. Which of the following is an correct statement ?

A. Vascular disease - A portion of the aortic wall weakens and balloons out, forming

an aneurysm.

B. Arrhythmia is a condition in which the heart beats irregularly.

C. Coronary heart disease - An inflammation of one or more layers of the pericardium a thin membrane that lines the heart.

D. Heart failure - blocked or clogged arteries limit blood flow to the heart.

Answer:



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6. What are the bones that make the pelvic girdle?

- A. Body skeleton
- B. External skeleton
- C. Axial skeleton
- D. Appendicular skeleton

Answer:



7. Ca^{+} Metabolism is regulated by

A. ACTH

B. Thyroxine

C. Parathyroidrmone

D. Epinephrine

Answer:



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1. Why are molecular tools used now to study taxonomy ?



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2. What is biradial symmetry?



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3. What are urochordates?



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4. Write a note on assimilation.



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5. Draw the diagram of Acoelomate flatworms.



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6. What is amoeboid movement ?



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Bio Zoology Part Iii

1. What are the characteristics of platyhelminthes?



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2. Distinguish between true ribs and false ribs.



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3. Write short notes on palmaris muscle



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4. What are the types of cultivable fishes?



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5. Name the stages of metamorphosis in frog.



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Bio Zoology Part Iv

1. Explain the three domains of life.

OR

Write an essay on Neural tissue. Draw the diagram and label the parts.



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2. Tabulate the major hypothalamic hormones and their functions.



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