



BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

SAMPLE PAPER - 16

Bio Botany Part I

1. The size of TMV is

A. $300 \times 20 \text{ mm}$

B. $300 \times 200 \mu m$

C. $300 \times 20 nm$

D. $300 \times 20 \text{\AA}$

Answer: C



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2. Respiratory roots are found in

A. Sweet potato

B. Bruguiera

C. Mango

D. Dahlia

Answer: B



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3. The term biosystematics was introduced by

A. Bauhin

B. Camp & Gilly

C. Cronquist

D. Smith

Answer: B



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4. Which organelle has a single unit membrane ?

A. Ribosomes

B. Glyoxysomes

C. Polysomes

D. Nucleus

Answer: B



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5. Golgi complex plays a major role in

A. post translational modification of
proteins and glycosidation of lipids

B. translation of proteins

C. Transcription of proteins

D. Synthesis of lipid

Answer: A



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6. Interfascicular cambium originates from

.....

A. Procambium

B. Vascular cambium

C. Pith

D. Medullary rays

Answer: D



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7. ABA stands for

A. Abscissic Acid

B. Ascorbic Acid

C. Acetyl Butyric Acid

D. Acetic Acid

Answer: A



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8. Identify true statement regarding light reaction of photosynthesis

A. Splitting of water molecule is associate with PS I

B. PS I and PS II involved in the formation of



C. The reaction center of PS I is Chlorophyll

a with absorption peak at 680 nm

D. The reaction center of PS II is Chlorophyll

a with absorption peak at 700 nm.

Answer: D



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1. Distinguish between Isogamy and Oogamy with example.



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2. What are the parts that constitute the typical leaf ?



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3. Cronquist classification is a failure. Justify



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4. What is polymerization?



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5. What is " bundle cap " or " hard bast"?



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6. How did blackman classify respiration ?



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Bio Botany Part Iii

1. Write a simple note on Oomycetes.



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2. Differentiate between monopodial and sympodial branching.



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3. What is giant chromosome?



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4. Describe the structure of stomata.



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5. What is Re-differentiation?



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Bio Botany Part Iv

1. Draw a flow chart illustrating stem modifications.



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2. Explain in detail about the various stages of Prophase I.



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3. Draw the structure of hydathode



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4. Explain the Calvin Cycle (Flow chart only).



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1. The secondary host of Taenia is

A. Snail

B. Pig

C. Man

D. Dog

Answer: B



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2. The study of tissues is known as

.....

A. Physiology

B. Ecology

C. Histology

D. Anatomy

Answer: C



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3. Match the List I and List II

List I (Common Name) List II (Genus)

- | | |
|-----------|-------------|
| 1. Dog | (i) Bos |
| 2. Cat | (ii) Canis |
| 3. Lion | (iii) Felis |
| 4. Cattle | (iv) Leo |

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

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

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

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

Answer: B



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4. AMS stands for

A. Artificial Mountain Sickness

B. Acute Mountain Sickness

C. Allergy Metabolic Sickness

D. Allergy Mountain Sickness

Answer: B



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5. Which of the following is an correct statement ?

A. Contraction of both atria lasts for around 0.7-1.0 sec.

B. The normal QRS complex lasts for 0.06 - 0.09 sec.

C. The ST segment lasts for 0.06 sec.

D. The time for an impulse to travel from the atria to the ventricles is around 0.12

-0.5 sec

Answer: B



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6. Which of the following is an incorrect statement ?

A. Muscle contraction is initiated by the signal from CNS.

B. In isotonic contraction the length of the muscle changes but the tension remains constant.

C. A single glycogen molecule may contain 8000 glucose units compared to that of 5000 individual glucose molecules.

D. The lack of myoglobin gives pale colour to the fibres, so they are termed as white muscle fibres.

Answer: C



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7. Which one protects the lungs?

A. Ribs

B. Vertebral column

C. Sternum

D. All of the above

Answer: D



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8. Nerve related to diaphragm is

.....

A. Trigeminal

B. Vagus

C. Glossopharyngeal

D. Phrenic

Answer: D



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1. What are Threatened species?



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2. Who is author of 'fall of sparrow' and explain it ?



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3. Distinguish between Agnatha and Gnathostomata.



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4. Draw the diagram of Rana hexadactyla - Brain dorsal view .



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5. Who discovered "Helicobacter pylori".



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6. Explain the bones that form the skull.



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Bio Zoology Part Iii

1. Define:-

Rheumatoid arthritis



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2. Write the classification of *Periplaneta americana*.



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3. How does rigor mortis happen?



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4. Draw a neat labeled diagram of human liver and pancreas.



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5. Define - oxytocin.



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1. Describe the excretory system of "Periplaneta americana".



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2. Draw the the structure of Blood Vessel - Large Vein.



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3. What is muscle contraction and what are the types of muscle contraction?



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4. Describe the structures of olfactory receptors.



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