



## BIOLOGY

### BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

#### SAMPLE PAPER - 15

##### Bio Botany Part I

1. Actinomycetes comes under .....kingdom.

- A. fungi
- B. chromista
- C. monera
- D. protista

**Answer: C**



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**2. Which of the following are found in extreme saline conditions?**

A. Archaeobacteria

B. Eubacteria

C. Cyanobacteria

D. Mycobacteria

**Answer: A**



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**3. Which part of embryo develops into stem ?**

- A. Radicle
- B. Micropyle
- C. Ostia
- D. Plumule

**Answer: D**



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**4. Duplicate specimen of holotype is**

- A. Lectotype
- B. Isotype
- C. Neotype
- D. Syntype

**Answer: B**



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**5. Which is not a pyrimidine base?**

A. Cytosine

B. Uracil

C. Guanine

D. Thymine

**Answer: C**



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**6. Who coined the term Hadrome ?**

A. Hanstein

B. Nageli

C. Hofmeister

D. Haberlandt

**Answer: D**



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7. Exanthema in citrus caused by the deficiency of .....

A. Mo

B. Cu

C. B

D. Zn

**Answer: B**



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**8. Identify the non-climacteric fruit.**

A. Tomato

B. Grapes

C. Apples

D. Mango

**Answer: B**



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1. Write the distinguishing features of monera.



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2. What is plectostele? Give example.



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3. Name the three types of petals in papilionaceous corolla.



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4. What is cytoplasmic streaming?



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5. How primary meristem differs from secondary meristem ?



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6. Given the overall equation of photosynthesis.



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## Bio Botany Part Iii

1. Write any three differences between chlorophyceae and phaeophyceae members?



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2. Describe fibrous root system.



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3. How will you identify the presence of starch in a food sample.



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4. Compare Hypertonic, Hypotonic and Isotonic solution .



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5. What is substrate level phosphorylation?



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1. Explain the various types of asexual reproduction in fungi.



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2. Define special inflorescence.



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3. Explain in detail about the symbiotic nitrogen fixation with nodulation.



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4. Tabulate any two differences between Cyclic and Non-Cyclic photophosphorylation.



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## Bio Zoology Part I

1. Who coined the word Taxonomy?

- A. Waksman
- B. Candolle
- C. Leuwenhoek
- D. Louis pasteur

**Answer: B**



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2. Mouth parts of housefly are

- A. Piercing and sucking type.
- B. Biting and sucking type.
- C. Sponging and sucking type.
- D. Biting and chewing type.

**Answer: C**



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**3. Match the List I and List II :**

List I (Character)	List II (Segments of Metaphire posthuma)
1. Micronephridia	(i) 15th to last segment
2. Meganephridia	(ii) 18th Segment
3. Male genital pore	(iii) 14th Segment
4. Female genital pore	(iv) 7th to last segment

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

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

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

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

**Answer: A**



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**4. ANS stands for.....**

A. Anterior Nervous System

B. Anterior Neuron System

C. Apical Nervous System

D. Autonomous Nervous System

**Answer: D**



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5. Which of the following is an correct statement ?

- A. Pulmonary embolism is an inflammation of the lining of your bronchital tubes.
- B. Bronchitis is a blood clot that occurs in the lungs.
- C. Asthma is a condition in which airways narow and swell and produce extra mucus.
- D. Emphysema is a condition in which the pleura becomes inflamed.

**Answer: C**



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6. Which of the following is an incorrect statement ?

- A. Myoglobin is heme containing protein that binds molecular oxygen in muscle cells.
- B. Sarcolemma is muscle cell membrane capable of propagating action potentials.
- C. Cartilage is a protein found in the cytoskeleton and muscle cells.
- D. Mesoderm is a middle embryonic germ layer.

**Answer: C**



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7. Urea is transformed through .....

- A. RBCs
- B. WBCs

C. Blood plasma

D. All of the above

**Answer: C**



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**8. Which is the skull bone**

A. Atlas

B. Femur

C. Tibia

D. Nasal

**Answer: D**



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## Bio Zoology Part Ii

1. What is e-taxonomic resources ?



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2. Define:-

Sjogren's syndrome



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3. Why are villi present in the intestine and not in the stomach ?



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4. Draw the diagram of Graph of a normal ECG.



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5. Name the different types of movement.



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6. List any three common uses of shellac.



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## Bio Zoology Part Iii

1. What are the advantages of bilateral symmetrical animals?



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2. Differentiate bones from cartilage.



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3. Distinguish between mitral valve and semi lunar valve.



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4. Draw the diagram of Ball and socket joint and label the parts.



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5. What is amoeboid movement ?





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## Bio Zoology Part Iv

1. Draw the digestive system of frog and label the parts.



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2. Explain the conditions which creates problems in oxygen transport.



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3. List the disorders of muscular system.



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4. Comment on the social organization of honey bees.



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