



# BIOLOGY

## BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

### SAMPLE PAPER - 14

#### Bio Botany Part I

1. Algal partner of lichen is ..... .

A. phycobiont

B. phytobiont

C. mycobiont

D. both (a) & (c)

**Answer: D**



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2. Zygote meiosis is characteristic of .....

.

A. Marchantia

B. Fucus

C. Funarta

D. Chlamydomonan

**Answer: D**



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**3.** The study about external features of an organism is known as

A. morphology

B. anatomy

C. physiology

D. taxonomy

**Answer: A**



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**4. Which of the following plants root is a Immunomodulator ?**

A. *Glycirriza glabra*

B. *Dalbergia latifolia*

C. *Mucum pruriens*

D. *Crotolaria jurcea*

**Answer: A**



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5. Yeast cells undergo .....

A. Open mitosis

B. Closed mitosis

C. Amitosis

D. Meiosis

**Answer: B**



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**6. Root hairs originated from .....**

A. Trichomes

B. Epidermis

C. Pericycle

D. Trichoblasts

**Answer: D**



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7. Rate of water movement through xylem is

.....

A. 65 cm/second

B. 75 cm/second

C. 12 cm/second

D. 82 cm/second

**Answer: B**



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**8.** Photosynthetic organisms use only \_\_\_\_ of incident solar light on earth.

A. 0.2

B. 0.6



C. 0.1

D. 0.8

**Answer: A**



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## **Bio Botany Part Ii**

**1. What are Endospores?**



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2. What is a staminode? Give example.



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3. How does study of Mitochondrial DNA help in evolutionary studies ?



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4. Why oil does not get mixed if added with water?



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5. On which basis, the carrier proteins are classified ? Mention its types.



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6. What is Richmond Lang effect?



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1. Describe homeostasis.



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2. Draw und label the parts of a leaf.



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3. What are the uses of molecular taxonomy?



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4. When do you call the perforation plate in vessels as simple ?



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5. Mention the role of Sulphur in plants.



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1. Define bud. Explain the types of buds based on location.



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2. List out the function of cell wall.



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3. Describe ringing experiment with diagram.



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4. Write the flow chart of Glycolysis.



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## Bio Zoology Part I

1. Taxonomic category arrange in descending order .....

A. Key

B. Hierarchy

C. Taxon

D. Taxonomic category

**Answer: D**



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2. In which of the following organisms, self fertilization is seen.

A. Fish

B. Round worm



C. Earth worm

D. Liver fluke

**Answer: D**



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

List I

List 2

1. Mycology      Study of birds

Ornithology      Study of fungi

Herpetology      Study of fishes

Lethylogy      Study of reptiles

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

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

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

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

**Answer: B**



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**4.** In earthworm the female genital aperture lies on the ventral side in the \_\_segment.

A.  $18^{th}$

B.  $10^{th}$

C.  $14^{th}$

D.  $8^{th}$

**Answer: C**



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**5. Which of the following statement is correct**

A. All veins carry deoxygenated blood.

B. All arteries carry deoxygenated blood.

C. All veins carry deoxygenated blood except one.

D. All arteries carry deoxygenated blood except one.

**Answer: D**



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6. Which of the following is an incorrect statement ?

A. Bruner's glands are present in the submucosa of stomach and secrete pepsinogen.

B. Goblet cells are present in the mucosa of intestine and secrete mucus.

C. Oxyntic cells are present in the mucosa of stomach and secrete HCl.

D. Acini are present in the pancreas and secrete carboxypeptidase.

**Answer: A**



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**7. The cranial bones are .....**

A. 22

B. 14

C. 8

D. 3

**Answer: C**



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**8. Which of the following has bipolar neurons ?**

A. Interneurons.

B. Cranial nerves.

C. Spinal nerves.

D. Inner ear

**Answer: D**



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## **Bio Zoology Part Ii**

**1. List out the three characteristics of porifera.**



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2. How will you identify tuberculosis disease ?



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3. Define dioecious plant



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4. Draw the diagram of Balanoglossus.



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5. What is ciliary movement?



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6. What are the symptoms of Myasthenia gravis disease.



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**1. What is PCR?**



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**2. Define mast cells.**



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**3. Differentiate between anus and cloaca.**



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4. Draw the diagram of brain stem and label the parts.



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5. What are the advantages of artificial insemination ? D



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1. Draw the flowchart of classification of phylum Chordata.



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2. Draw the diagram and label the parts of dorsal and ventral view of earthworm.



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3. Explain the disorders of skeletal system.



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**4. Tabulate the Cranial nerves and its function.**



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