



## BIOLOGY

# BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

## SAMPLE PAPER - 6 (SOLVED)

### Bio Botany Part I

1. Syphilis is caused by.....

A. Mycoccus candidans

B. Treponema pallidum

C. Yersinia pestis

D. Mycobacterium leprae

**Answer: B**



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**2. Who is called as the Father of Indian Phycology?**

A. M.O. Parthasarathy

B. Y. Bharadwaja

C. V.S. Sundaralingam

D. V. Desikachary

**Answer: A**



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**3. Which of the following plant possess sessile leaves ?**

A. Hibiscus

B. Mangifera

C. Psidium

D. Gloriosa

**Answer: D**



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4. Histone proteins are seen in the DNA of \_\_\_\_\_.

A. Pscudokaryotes

B. Prokaryotes

C. Mesokaryotes

D. Eukaryotes

**Answer: D**



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5. Number of fatty acids in triglyceride is \_\_\_\_\_.

A. 1

B. 2

C. 3

D. 4

**Answer: C**



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**6. Principle behind the desalination of sea water is \_\_\_\_\_.**

A. Endosmosis

B. Diffusion

C. Reverse osmosis

D. Deplasmolysis

**Answer: C**



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7. In Emerson's first effect, the photosynthetic yield was dropped in the region above \_\_\_\_\_.

A. 720 nm

B. 620 nm

C. 680 nm

D. 600 nm

**Answer: C**



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**8.** Which of the following plant hormone functions against auxin?

A. Gibberellin

B. Cytokinin

C. Ethylene

D. Absciscic acid

**Answer: D**



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## Bio Botany Part Ii

1. What is Porin? How it helps the bacteria ?



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2. Mention various types of stem seen in angiosperms.



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3. Define inflorescence.



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4. List out the disadvantages of Amitosis.



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5. Relay pump theory of Godlewski was proved in the year



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6. Define anaerobic photosynthesis .



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1. Who is called as founder of modern bacteriology ?  
Mention his contribution?



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2. List down the key difference between roots and shoots.



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3. List the differences between taxonomy and systematics.



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4. What do you mean by Phloem loading ?



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5. Define Dark Reaction.



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## Bio Botany Part Iv

1. List out the salient features of Basidiomycetes.



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2. Write the general characteristic features of Pteridophytes.



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3. Draw a Flow chart of Krebs's cycle.



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4. Explain geometric growth rate?



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## Bio Zoology Part I

1. Which class of protozoa is totally parasitic ?

- A. Sporozoa
- B. Mastigophora
- C. Ciliate
- D. Sarcodina

**Answer: A**



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2. Medusa is the Reproductive organs of \_\_\_\_\_ .

A. Hydra

B. Aurelia

C. Obelia

D. Sea anemone

**Answer: B**



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

List I

List II

- |                    |                                      |
|--------------------|--------------------------------------|
| 1. Ball and socket | (i) Knee                             |
| 2. Hinge           | (ii) Humerus and pectoral girdle     |
| 3. Pivot           | (iii) Carpal and metacarpal of thumb |
| 4. Saddle          | (iv) Atlas and axis                  |

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 - (ii)

**Answer: B**



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#### 4. Expand the acronyms

LH

- A. Luteinising hormone
- B. Langerhans hormone
- C. Low secretion hormone
- D. Luteotrophic hormone

**Answer: A**



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5. Which of the following statement is correct?



- A. Calcitonin and thymosin are thyroid hormones.
- B. Pepsin and prolactin are secreted in stomach.
- C. Secretin and rhodopsin are polypeptide hormones.
- D. Cortisol and aldosterone are steroid hormones.

**Answer: D**



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**6.** Which of the following statement is incorrect regard to species \_\_\_\_\_.

- A. They have similar morphological

- B. They are reproductively isolated
- C. They produce viable young ones
- D. They have similar anatomical features

**Answer: B**



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7. The kidney of adult mammals is \_\_\_\_\_.

- A. Opisthonephron
- B. Pronephros
- C. Mesonephros
- D. Metanephros

**Answer: D**



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**8. Deficiency of vitamin D causes \_\_\_\_.**

A. Scurvy

B. Leucopenia

C. Leukaemia

D. Rickets

**Answer: D**



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1. Why mule is sterile in nature?



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2. Name and explain the type of barriers which involve macrophages.



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3. Differentiate between peristomium and prostomium in earthworm.



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4. Draw the diagram of structure of alveoli.



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5. How is urea formed in the human body? (OR) We are not consuming urea. But in our body urea is produced. Why?



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6. Write the symptoms of cretinism.



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## Bio Zoology Part Iii

1. What is Canal system?



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2. Draw the diagram of structure of the heart.



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3. The central nervous system has cranial and spinal nerves.



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4. Mention the Subdivisions of the seven kingdom classification.



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5. Write the differences between endocrine and exocrine gland.



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



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2. Explain the types of simple epithelium.



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3. Write a detailed account of gastro intestinal tract hormones



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4. Discuss the various techniques adopted in cattle breeding.



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