



## BIOLOGY

# BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

## SAMPLE PAPER -7 (SOLVED)

### Bio Botany Part I

1. Red sea is red colour due to.....

A. Dermacarpa sps.

B. Trichodesmium sps.

C. Sctonema sps.

D. Gloeocapsa sps.

**Answer: B**



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**2. Sago is obtained from.....**

A. Cycas revoluta

B. *Pinus roxburghii*

C. *Pinus insularis*

D. *Cedrus deodara*

**Answer: A**



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**3.** Plants growing on the water surface are called as ..... type of aquatic plants.

A. emergent

B. submerged

C. free floating

D. mangroves

**Answer: C**



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**4. Synapsis occur between**

A. mRNA and ribosomes

B. Spindle fibres and centromeres

C. Two homologous chromosomes

D. A male and a female gamete

**Answer: C**



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**5. An example of feedback inhibition is**

A. Cyanide action on cytochrome

B. Sulpha drug on folic acid synthesiser  
bacteria

C. Allosteric inhibition of hexokinase by  
glucose-6-phosphate

D. The inhibition of succinic dehydrogenase  
by malonate

**Answer: C**



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**6. Rubber is a . . . . .**

A. Latex

B. Resin

C. Alkaloid

D. Drug

**Answer: A**



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**7. Identify the correct statement**

(i) sulphur is essential for amino acids cystine and methionine

(ii) low level of N , K ,S and Mo affect the cell

division

(iii) Non -leguminous plant *Alnus* which contain bacterium *frankia*

(iv) Denitrification carried out by *nitrosomonas* and *nitrobacter* .

A. (i),(ii) are correct

B. (i),(ii),(iii) are correct

C. (i) only correct

D. all are correct

**Answer: B**





8. Which step is irrelevant with respect to aerobic respiration?

- A. Glycolysis
- B. Pyruvate oxidate
- C. Fermentation
- D. TCA cycle

**Answer: C**



## Bio Botany Part Ii

1. How milk is changed into curd, if a few drops of curd is added to it? What is the reason for its sourness ?



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2. What are pyrenoids ?



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3. Aggregate fruit develops from



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4. Define Magnification of a lens.



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5. Define diffusioni pressure deficit.



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6. Name the two forms of phycobilins and also give an example.



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## Bio Botany Part Iii

1. Do you think shape of chloroplast is unique for algae. Justify your answer.



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2. Name a few molecular markers used in molecular taxonomy.



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3. List out the criteria for being an essential mineral.



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4. Draw and label the parts of regions of root.



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5. What do you mean by the term – Basipetal transport and Acropetal transport?



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## Bio Botany Part Iv

1. Draw a flow chart depicting the Bentham and Hooker Classification.



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2. Explain the types of parasitic mode of nutrition in angiosperms.



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## Bio Zoology Part I

1. Which is not a unit of taxonomic category?

A. Series

B. Glumaceae

C. Class

D. Phylum

**Answer: B**



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2. Study of ticks and mites is .....

A. Acarology

B. Entomology



C. Malacology

D. Carcinology

**Answer: A**



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

- |                |                       |
|----------------|-----------------------|
| 1. Silver fish | (i) Book lung         |
| 2. Scorpion    | (ii) Pharyngeal gills |
| 3. Sea squirt  | (iii) Lungs           |
| 4. Dolphin     | (iv) Trachea          |

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

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

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

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

**Answer: B**



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**4. MSH stands for.....**

A. Melanocyte stimulating hormone

B. Malic stimulating hormone

C. Myosin stimulating hormone

D. Metabolic stimulating hormone

**Answer: A**



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5. Which of the following is an correct statement?

A. Ehler's -Danlos syndrome -Affects

collagen and results in facial

abnormalities.

B. Rhabdomyosarcoma - Life threatening soft tissue tumour of head, neck and urinogential tract.

C. Rheumatoid arthritis- Progressive inability to secrete saliva and tears

D. Alzheimer's disease - A degenerative disorder of the nervous system that affects movement often including tremors.

**Answer: B**



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**6. Which of the following is an incorrect statement?**

**A. The functions of frontal region are Behaviour, intelligence, memory and movement.**

B. The functions of parietal regions is intelligence and memory.

C. The functions of temporal region are speech, hearing and memory.

D. The functions of occipital region is visual processing

**Answer: B**



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7. Synovial fluid is found in

- A. Spinal cavity
- B. Cranial cavity
- C. Freely movable joints
- D. Fixed joints

**Answer: C**



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8. Glands responsible for secreting tears are

.....

A. Glands of moll

B. Lacrimal glands

C. Meibomian glands

D. Glands of Zeis

**Answer: B**



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1. Why are spongin and spicules important to a sponge?



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2. What is water vascular system?



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3. Differentiate Chordates and Non-Chordates.



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4. Draw the diagram of head region of *Periplaneta americana*.



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5. Name the different types of movement.



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6. What is endomysium?



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7. Write a note on the classical taxonomical tools.



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1. Define:-

Ehlers Danlos Syndrome



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2. What are Purkinje fibers?



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3. Draw the diagram of pelvic girdle with lower limb.



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4. Specify the symptoms of acromegaly



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5. If your friend is addicted to cigarette smoking as a biology student, how would you explain the ill-effects of smoking ?



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1. Explain in the structure of spinal cord.



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2. What are the stages involved in rearing of chicken?



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