



## BIOLOGY

# BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

## SAMPLE PAPER - 12

### Bio Botany Part I

1. During conjugation in bacteria, which of the following is transferred from donor to recipient

cell?

A. R factor

B. F factor

C. Ti factor

D. Ri factor

**Answer: B**



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**2. Roots are**

A. descending, negatively geotropic,  
positively phototropic

B. descending, positively geotropic,  
negatively phototropic

C. ascending, positively geotropic,  
negatively phototropic

D. ascending, negatively geotropic,  
positively phototropic

**Answer: B**



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3. Which of the following plant produces bulbils ?

- A. Bryophyllum
- B. Begonia
- C. Allium proliferum
- D. Solanum americanum

**Answer: C**



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4. Undistinguished sepal and petal is called as

A. Petaloid

B. Staminode

C. Perianth

D. Sepaloid

**Answer: C**



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5. The thylakoids in chloroplast are arranged in

A. regular rings

B. linear array

C. diagonal direction

D. stacked discs

**Answer: D**



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**6. Munch hypothesis is based on**

- A. Translocation of food due to TP gradient and imbibition force
- B. Translocation of food due to TP
- C. Translocation of food due to imbibition force
- D. None of the above

**Answer: B**



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7. Electro magnetic spectrum consists of ..... types of radiation.

A. 2

B. 4

C. 6

D. 8

**Answer: D**



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8. Bakanae's disease was first noticed by

A. F.W. Went

B. Kurosawa

C. Cocken

D. Denny

**Answer: B**



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1. What is transformation? Name the bacteriologist who described it.



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2. What is Canada Balsam ?



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3. Define herbarium specimen.



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4. Distinguish between Karyokinesis & Cytokinesis .



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5. Write down the significance of imbibition.



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6. Give an account on RUBISCO.



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## Bio Botany Part Iii

1. Write any two merits of Five Kingdom classification.



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2. How root climbers differ from stem climbers?



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3. What is serotaxonomy?



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4. Draw the structure of ATP molecule.



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5. What is the name of final of senescence?



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1. List out the general characteristics of Bryophytes.



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2. Name the medicinal plants of fabaceae and write the useful part and their uses



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3. Differentiate between stoma & hydathode.



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4. Describe the structure of chloroplast.



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1. .... is celebrated as World Sparrow Day.

A. April 20

B. March 20

C. April 19

D. March 19

**Answer: B**



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2. Which of the following is pseudocoelomate?

A. Nematode

B. Chordate

C. Echinodermata

D. Arthropoda

**Answer: A**



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

List I (Characters)      (List II (Female Cockroach))

- |                |                        |
|----------------|------------------------|
| 1. Anal styles | (i) Short and broad    |
| 2. Brood pouch | (ii) Shorter in length |
| 3. Antenna     | (iii) absent           |
| 4. Abdomen     | (iv) Present           |

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

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

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

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

**Answer: A**



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4. PNS stands for ..... .

- A. Primary Neural System.
- B. Primary Neuron System.
- C. Peripheral Neural System.
- D. Posterior Neuron System.

**Answer: C**



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5. Which of the following is an correct statement ?

A. The major cause for Asthma is cigarette smoking.

B. Tuberculosis mainly occurs in the lungs and bones.

C. Pneumonia is caused by Mycobacterium tuberculae.

D. Asthma is an inflammation of the lining of bronchial tubes.

**Answer: B**



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

- A. Cervical nerves consist of 12 pairs.
- B. Thoracic nerves consist of 5 pairs.
- C. Lumbar nerves consist of 6 pairs.
- D. Coccygeal nerves consist of 1 pair.

**Answer: D**



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**7. Excretory organs of cockroach are**

A. Malpighian corpuscles

B. Malpighian tubules

C. Hepatic caecum

D. Green glands

**Answer: B**



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**8. In which bone triangular acromion is present ?**

A. Radius

B. Scapula

C. Femur

D. Humerus

**Answer: B**



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## Bio Zoology Part II

1. What is the peculiarity of "biradially symmetrical"?



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2. Define:-

Parkinson's disease.



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3. Differentiate between tergum and a sternum.



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4. Define - vocal cords.



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5. Draw the diagram of C.S. of spinal cord ?



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6. Explain any three functions of Testosterone.



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## Bio Zoology Part Iii

1. What are pseudocoelomates ?



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2. How does the male frog attracts the female for mating?



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**3.** Differentiate White adipose tissue from Brown adipose tissue.



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**4.** Define - Sternum.



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5. Draw the diagram of cone cells and label the parts.



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## Bio Zoology Part Iv

1. List the unique features of bird's endoskeleton.



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2. Define sliding filament theory of muscle contraction.



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3. Write the peculiar characters of duck.



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