



BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

SAMPLE PAPER - 18

Bio Botany Part I

1. Rust of wheat is produced by

A. *Albugo candida*

B. *Puccinia graministritici*

C. *Candida albicans*

D. *Colletotrichum* sp.

Answer: B



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2. When the root is thick and fleshy, but does not take a definite shape, it said to be _____

- A. nodulose root
- B. tubercular root
- C. moniliform root
- D. fasciculated root

Answer: B



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3. The false septum seen in siliqua fruits is

.....

A. frenulum

B. micropyle

C. raphae

D. replum

Answer: D



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4. Which of the following organelle is believed to be an endosymbiont ?

A. Ribosomes

B. Mitochondrion

C. Golgi bodies

D. Nucleus

Answer: B



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5. Proteins perform many physiological functions. For example some functions as enzymes. One of the following represents an

additional function that some proteins discharge :

- A. Antibiotics
- B. Pigment conferring colour to skin
- C. Pigments making colours of flowers
- D. Hormones

Answer: D



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6. Phellogen arises from,
in dicot roots.

- A. Endodermis
- B. Piliferous layer
- C. Pericycle
- D. Periderm

Answer: C



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7. 'Law of Minimum' was proposed by

.....

A. Van Helmont S.

B. Von Sachs

C. Wood word

D. Liebig

Answer: D



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8. Pyruvic oxidation occurs in

.....

A. Cytoplasm

B. Mitochondrial matrix

C. Inner membrane of mitochondria

D. Both cytoplasm and mitochondrial
membrane

Answer: B



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Bio Botany Part Ii

1. Define metabolism. Mention its types.



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2. Classify the terrestrial plants based on their adaptation.



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3. What is spathe?



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4. Draw the molecular structure of water.



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5. State the types of lateral meristem , their role in woody plants .



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6. Explain Anti-auxins.



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Bio Botany Part Iii

1. What are cryptogam? Mention its division.



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2. Differentiate between polycarpic and monocarpic perennial.



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3. Write about Mesokaryotes?



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4. Draw the annular and reticulate types of secondary wall thickening in tracheids.



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5. Draw a Flow Chart illustrating various types of cell to cell transport .



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Bio Botany Part Iv

1. Describe the salient features of Chlorophyceae members.



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2. Discuss in detail about the physical properties of protoplasm.



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3. Tabulate the difference between active absorption and passive absorption.



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4. Describe the various stages of nitrogen cycle.



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Bio Zoology Part I

1. Caterpillar and maggot are

.....

A. Larvae

B. Nymphs

C. Adults

D. pupa

Answer: A



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2. The excretory material of bony fish is.....

A. Urea

B. Protein

C. Ammonia

D. Amino acid

Answer: C



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3. Match the List I and List II

List I (Name)	List II (Phylum)
---------------	------------------

- | | |
|--------------|-----------------|
| 1. Cockroach | (i) Mollusca |
| 2. Earthworm | (ii) Arthropoda |
| 3. Frog | (iii) Annelida |
| 4. Snail | (iv) Chordata |

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

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

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

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

Answer: B



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4. CPCB stands for

A. Central Police Control Board

B. Central Pollution Control Board

C. Compressed Pollution Control Board

D. Central Primary Control Board

Answer: B



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5. Which of the following is a correct statement ?

A. Dub sound is associated with the closure of the AV valves.

B. Lub sound is associated with the closure of the semilunar valves.

C. Diastole is relaxation of heart chambers.

D. Endocardium is the outer cardiac muscle.

Answer: C



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6. Which of the following is an incorrect statement ?

A. Sternum is a flat bone on the mid ventral line of the thorax.

B. There are 14 pairs of ribs in human beings.

C. The metatarsus consists of five bones called metatarsals.

D. The skull is composed of two sets of bones namely cranial and facial bones.

Answer: B



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7. Which is the National Aquatic animal of India?

A. River Dolphin

B. Blue whale

C. Sea horse

D. Gangetic shark

Answer: A



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8. Red muscle are rich in

A. Golgi bodies

B. Mitochondria

C. Lysosomes

D. Ribosomes

Answer: B



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1. How did Aristotle classify organisms ?



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2. What is Metamerism ?



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3. Why do you call cockroach a pest?



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4. Define - Absorption.



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5. Write the difference between Rod cells and Cone cells.



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6. Draw the diagram of the nephron.





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Bio Zoology Part Iii

1. List the functions of air bladder in fishes.



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2. Compare closed and opened circulatory system.



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3. Write a note on the economic importance of frog and for what purpose its used as a traditional medicine?



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4. Draw the diagram and label the parts of path of sound wave in human ear.



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5. Specify the symptoms of acromegaly.



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Bio Zoology Part Iv

1. List out the diagnostic features of phylum Ctenophora.



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2. How respiration takes place in cockroach?



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3. Explain the hormones regulating the kidney function.



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4. Classify neurons on the basis of number of axon and dendrites.



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