



BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

SAMPLE PAPER - 20 (UNSOLVED)

Bio Botany Part I

1. The correct statement regarding Blue green algae is

- A. lack of motile structures
- B. presence of cellulose in cell wall
- C. absence of mucilage around the thallus
- D. presence of floridean starch

Answer: A



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2. When does the angiosperm appeared on Earth ?

A. Devonian

B. Cambrian

C. Early cretaceous

D. Precambrian

Answer: C



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3. First modem botanical garden was established by

A. Theophrastus

B. Linnaeus

C. Luca Ghini

D. Stebbins

Answer: C



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4. Bivalents occur at
stage.

A. Zygotene

B. Leptotene

C. Pachytene

D. Diplotene

Answer: A



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5. Which of the following does not contain cell wall?

A. Fungi

B. Bacteria

C. Mycoplasma

D. Algae

Answer: C



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6. Diffuse porous wood is seen in

.....

A. Quercus

B. Maple

C. Pinus

D. Acer

Answer: D



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7. If a plant is provided with all mineral nutrients but, Mn concentration is increased, what will be the deficiency?

A. Mn prevents the uptake of Fe, Mg but not Ca

B. Mn increase the uptake of Fe, Mg and Ca

C. Only increase the uptake of Ca

D. Prevents the uptake Fe, Mg, and Ca

Answer: A



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8. The term respiration was coined by _____

A. Pepys

B. Calvin-Benson

C. Meyerhoff

D. Karl Lohman

Answer: A



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Bio Botany Part II

1. What is Virion? (or) Define Virion.



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2. Differentiate homospory and heterospory with example.



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3. When a flower is said to be complete?



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4. What are oxysomes?



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5. What happens to the primary xylem and phloem during secondary growth ?



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6. What is CO_2 compensation point?



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Bio Botany Part Iii

1. Wat are bacteriophages ? Where can we find it ?



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2. What do you understand by the term developmental heterophylly.



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3. What is the role of nucleus in the cell ?



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4. Draw and label the structure of Mitochondira.



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5. Give an account on Dedifferentiation.



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Bio Botany Part Iv

1. List out the principles of 1CN.



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2. Explain the structure and function of different types of RNA.



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3. Write the role of nitrogenase enzyme in nitrogen fixation?



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4. Explain the three phases of growth.



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Bio Zoology Part I

1. The term biodiversity was first introduced by

.....

A. A.G. Tansley

B. Walter Rosen

C. Brendon et al.

D. Mora et al.

Answer: B



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2. Excretory product of spider is

.....

A. Uric acid

B. Ammonia

C. Guanine

D. None of these

Answer: C



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3. Match the List I and List II

List I (Phylum)	List II (Common Name)
1. Platyhelminthes	(i) Segmented worm
2. Aschelminthes	(ii) Cockroach
3. Annelida	(iii) Flatworms
4. Arthropoda	(iv) Round worms

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

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

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

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

Answer: A



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4. GIP stands for

A. Gastric Immunity Peptides

B. Gastric Inhibitory Protein

C. Gastric Inhibitory Peptide

D. None of these

Answer: C



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5. Which of the following is an correct statement?

A. The wall of the stomach is lined by salivary glands.

B. The second largest gland in the digestive system is liver.

C. Pancreas is the largest gland in our body.

D. The daily secretion of saliva from salivary glands ranges from 1000 to 1500 ml.

Answer: D



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6. Which of the following is an incorrect statement ?

A. Growth hormone is also known as somatotropin.

B. Follicle stimulating hormone regulates the functions of the gonads.

C. Luteinizing hormone is also called as Luteotropin.

D. Lactogenic hormone stimulates milk secretion after the child birth in females.

Answer: C



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7. Which of the following is an egg laying mammal?

A. Dolphin

B. Platypus

C. Whale

D. Walrus

Answer: B



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8. On seeing a tiger, the heart beat and blood pressure increase due to release of hormone.

A. Corticoids

B. Thyronine

C. Adrenaline

D. Parathormone

Answer: C



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1. What is numerical taxonomy?



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2. List the functions of air bladder in fishes.



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3. Distinguish between open and closed circulation.



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4. Draw the diagram of large intestine.



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5. What are Ammonotelic animals?



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6. How does an isotonic contraction take place?



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Bio Zoology Part Iii

1. Triploid plants and animals produce many offsprings.



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2. Differentiate between elastic fibres and elastic connective tissue.



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3. Why do you call cockroach a pest?



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4. Draw the diagram and label the parts of human skull.



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5. Why are we getting running nose while crying ?



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1. Write the general characters of the phylum porifera.



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2. Explain the digestion in the small intestine .



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3. Write a short note on Reflex action and Reflex arc.





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4. Explain the hormones secreted by Adrenal gland.



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