



BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

SAMPLE PAPER - 19 (UNSOLVED)

Bio Botany Part I

1. Identify the criteria not used in classifying
viruses by Baltimore

A. ss (or) ds

B. use of RT

C. capsid

D. sense or antisense

Answer: C



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2. Negatively geotropic roots are seen in plant
like

A. Beta vulgaris

B. Hibiscus

C. Rhizophora

D. Euphorbia

Answer: C



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3. Who is the father of Taxonomy?

A. Engler & Prantl

B. Linnaeus

C. Theophrastus

D. Darwin

Answer: B



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4. Scientist who described chromosomes for the first time is.....

A. Robert Brown

B. Anon Van Leeuwenhoek

C. Boveri

D. Anton Schneider

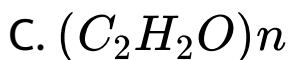
Answer: D



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5. Write the molecular formula for carbohydrates?

A. $(CH_2O)_n$



Answer: A



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6. Osmotic pressure is represented by Greek letter

A. α

B. π

C. Ψ

D. θ

Answer: B



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7. Insectivorous plants usually seen in
deficient soil .

A. Sulphur

B. Nitrogen

C. Carbon

D. Potassium

Answer: B



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8. Number of dicot species performing C_4 pathway is

A. 200

B. 300

C. 800

D. 1000

Answer: B



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Bio Botany Part Ii

1. Define epiphytic algae with an example.



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2. Name the two primary functions of roots.



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3. What is Stramonium?



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4. Why amitosis is called as ineipient cell division ?



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5. What is the need for transport in plants ?



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6. Define the term photosynthetic pigment .



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1. Mention any three Pteridophytes and their economic value.



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2. Define Placentation & mention their types.



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3. List out the components of Electron Microscope.



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4. Draw a schematic diagram to show reverse osmosis.



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5. Write the equation for reductive amination.



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1. List out the characteristics of leaf.



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2. Write any three significance of mitosis .



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3. Describe the various stages of nitrogen cycle.



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4. Draw a Flow chart of Kreb's cycle.



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Bio Zoology Part I

1. Three domain classification was proposed by

:

A. Aristotle

B. Carlous Linnaeus

C. Carl Woese

D. Wilson

Answer: C



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2. Blood worms are the larvae of

A. Hirudinaria

B. Chironomus

C. Limulus

D. Daphnia

Answer: B



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3. Match the List I and List II

	List I (Glands)		List II (Functions)
1.	Salivary glands	(i)	Stores bile
2.	Liver	(ii)	Moistens food
3.	Gall bladder	(iii)	Secretes digestive enzymes
4.	Pancreas	(iv)	Produces bile

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

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

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

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

Answer: A



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4. MSH stands for.....

A. Myobin Stimulating Hormone

B. Myosin Secreting Hormone

C. Melanocyte Stimulating Hormone

D. Metabolic Stimulating Hormone

Answer: C



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5. Which of the following is a correct statement ?

A. The sclerites of the dorsal side of cockroach is known as pleurites.

B. The adult cockroaches are about 2 to 4 cm in length.

C. The sclerites of the ventral side of cockroach is called as tergites.

D. The sclerites of the lateral sides of cockroach is known as sternites.

Answer: B



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6. Which of the following is an incorrect statement ?

A. Fibrous joints are immovable fixed joints in which no movement between the bones is possible.

B. Cartilaginous joints are slightly movable joints in which the joint surfaces are separated by a cartilage.

C. Sutures of the flat skull bones are pivot joint.

D. Synovial joints are freely movable joints.

Answer: C



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7. Vocal cords occur in

A. Pharynx

B. Larynx

C. Glottis

D. Bronchial tube

Answer: B



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8. Deficiency of calciferol causes

.....

A. Scurvy

B. Leucopenia

C. Rickets

D. Leukaemia

Answer: C



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Bio Zoology Part II

1. What is Biodiversity?



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2. Define - Planula larva.



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3. Distinguish between

(a) Simple epithelium and compound epithelium.

(b) Cardiac muscle and striated muscle

(c) Dense regular and dense irregular connective tissues

(d) Adipose and blood tissue

(e) Simple gland and compound gland



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4. Draw the diagram of structure of alveoli.



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5. What is myoglobin ?



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6. What are the functions of neuroglia ?



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Bio Zoology Part Iii

1. Name the functions of epithelial tissue.



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2. Differentiate between maxillary teeth and vomerine teeth.



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3. What are the types of salivary glands ?



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4. Draw the diagram of structure of the heart.



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5. Define - Appendicular skeleton.



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Bio Zoology Part Iv

1. Write the general characteristics of phylum Echinodermata .



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2. Explain the morphology of cockroach.



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3. Write the functions of skeletal system.



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4. Explain the Autonomic Neural system.



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