



BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

SAMPLE PAPER - 11

Bio Botany Part I

1. Which of the most common mode of asexual reproduction in bacteria ?

A. Endospore formation

B. Fission

C. Budding

D. Conidia

Answer: B



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2. Botanical survey of India has regional centres in India.

A. 10

B. 11

C. 12

D. 13

Answer: B



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3. Which of the following is not a mitogen ?

A. Giberellin

B. Ethylene

C. Kinetin

D. Colchicine

Answer: D



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4. Enzymes that catalyse interconversion of optical, geometrical or positional isomers are

A. Ligases

B. Lyases

C. Hydrolases

D. Isomerases

Answer: D



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5. Which of the following is responsible for the mechanical support ,protein synthesis and enzyme transport

A. cell membrane

B. mitochondria

C. dictyosomes

D. endoplasmic reticulum

Answer: D



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6. Usually, the monocotyledons do not increase their girth, because

- A. They possess actively dividing cambium
- B. They do not possess actively dividing cambium
- C. Ceases activity of cambium
- D. All are correct

Answer: B



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7. Which bacterium is NOT involved in Denitrification ?

A. Pseudomonas

B. Thiobacillus

C. Bacillus subtilis

D. Nitrobacter

Answer: D



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8. Usually chlorophyll molecules are considered as physiological units of photosynthesis.

A. 300 - 700

B. 200 - 300

C. 240 - 750

D. 200 - 280

Answer: B



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1. Define phycology.



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2. How the seeds are classified based on endosperm?



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3. Define Taxonomy.



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4. What is kinetochore?



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5. State any two vital role of water in plants.



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6. Write the overall equation for respiration.



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Bio Botany Part Iii

1. What are the different types of asexual reproduction in living organisms.?



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2. Study of morphology is important in taxonomy. Why?



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3. How lattice formation occurs in water molecule?



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4. Draw and label the structure of oxysomes.



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5. Write a note on Epigeal & hypogeal germination.



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Bio Botany Part Iv

1. How are flowers classified based on the position of ovary?



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2. Describe the structure of Mitochondria.



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3. Explain Protein - Lecithin Theory.



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4. Tabulate the different types of photosynthetic pigments .



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Bio Zoology Part I

1. Method of dispersal in Amoeba is

A. Locomotion

B. Encystment

C. Sporulation

D. Binary fission

Answer: B



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2. Gonads of Obelia occur in

A. On blastocyst

B. Inhydrula stage

C. Radial canals of medusa

D. Bases of entacles of medusa

Answer: C



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3. Match the List I and List II :

List I

List II

(Name of bone)

(Number of Bones)

1. Fore limb

(i) 2

2. Skull

(ii) 2

3. Pectoral girdle

(iii) 29

4. Pelvic girdle

(iv) 60

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

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

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

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

Answer: A



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4. ABIS stands for

A. Anatomy Bee Identification system

B. Automatic Bee identification system

C. Automatic Book Identification system

D. Advanced Bee Identification system

Answer: B



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5. Which of the following is an correct statement ?

A. Glycosomes is the functional unit of the skeletal muscle.

B. Skeletal muscle is attached to the bone by a bundle of collagen fibres known as fascicle.

C. Myoglobin is a red-coloured respiratory pigment of the muscle fibre.

D. The cytoplasm of the muscle fibre is called endomysium.

Answer: C



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6. Which of the following is an incorrect statement ?

A. Turtles spend most of their life in the water.

B. Tortoises are primarily terrestrial.

C. Most of the turtles are short and sturdy with bent legs.

D. Carpace of tortoise is usually dome-shaped.

Answer: C



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7. A decrease in blood pressure/volume will not cause the release of.

A. Atrial natriuretic factor

B. Aldosterone

C. ADH

D. Renin

Answer: A



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8. How many pairs of spinal nerve are found in human ?

A. 33

B. 32

C. 31

D. 30

Answer: C



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Bio Zoology Part Ii

1. Define ecosystem.



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2. What are the larvae of flatworms?





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3. How is sexual reproduction different from asexual reproduction ?



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4. Draw the diagram of Hiatus hernia.



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5. What is normal blood glucose level in human beings ?



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6. Give the economic importance of prawn fishery.



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1. List out the characteristics of Cephalochordata ?



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2. Differentiate White adipose tissue from Brown adipose tissue.



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3. How do earthworms breathe?





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4. Draw the diagram of different types of cultivable fishes.



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5. How does an isotonic contraction take place?



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1. Write a short note on Vermitech and Vermiculture, Vermicomposting, Vermiwash.



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2. Write a short note on respiratory capacities.



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



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4. Explain the sensory function of skin.



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