



BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

SAMPLE PAPER-09(UNSOLVED)

Bio Botany Part I

1. Number of domains of life are there
according to Carl Woese

A. 3

B. 32

C. 4

D. 5

Answer:



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2. Which of the following shows coiled RNA strand and capsomeres ?

A. Polio virus

B. Tobacco mosaic virus

C. Measles virus

D. Retrovirus

Answer:



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3. Talipot plant. Bamboo and Agave are examples of

A. polycarpic geophytes

B. therophytes

C. monocarpic geophytes

D. biennial

Answer:



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4. The type of inflorescence seen in *Caesalpinia* is

A. corymb

B. compound corymb

C. capitulum

D. umbel

Answer:



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5. Which one of the following organism is correctly matched with its three characteristics ?

A. Pea : C_3 pathway. Endospermic seed.

Vexillary aestivation

B. Tomato: Twisted aestivation. Axile

placentation. Berry

C. Onion: Bulb, Imbricate aestivation, Axile

placentation

D. Mnzize: C_3 pathway. Closed vascular

bundles, scutellum

Answer:



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6. Protoplasm is made ofof water.

A. 80 – 90 %

B. 85 – 90 %

C. 60 – 80 %

D. 75 – 85 %

Answer:



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7. The term soilless culture refers to

- A. Aeroponics
- B. aquaculture
- C. Hydroponics
- D. Drip irrigation

Answer:



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8. Which of the following statement is NOT true regarding cyclic photophosphorylation ?

A. The primary electron acceptor is FRS

B. It produces only ATP molecules

C. It produces only $NADPH + H^+$ molecules

D. Electrons ejected from PSI again cycled back to PSI

Answer:



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Bio Botany Part Ii

1. Name few plant disease caused by mycoplasma.



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2. Which leaf part acts a bridge between leaf & stem ? Define.





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3. Mention any two morphological characters to differentiate monocots from dicots.



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4. What is the cell wall composition of the following organism?

(a) Fungi

(b) Bacteria

(c) Algae.



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5. What is the significance of imbibition ?



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6. How does nitrogen fixation occurs non-biologically ?



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1. Name few fungal diseases in Humans.



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2. List out any 3 significances of seed.



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3. Writte a note on endosy mbiont theory.





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4. What are sieve tubes ? Explain.



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5. Draw and label the structure of lenticel.



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6. List out the salient features of Cyanobacteria.



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7. Differentiate between mitosis and meiosis.



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8. Write in detail about Passive Absorption of minerals salts.



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9. List the types of senescence.



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Bio Zoology Part I

1. True species are

A. Inter breeding

B. Sharing the same niche

C. Reproductively isolated

D. Feeding on the same food

Answer:



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2. Collar cells are found in

A. Aschelminthes

B. Sponges

C. Cnidaria

D. Arthropoda

Answer:



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3. Match the List I and List II :

List I

List II

- | | |
|----------------------|-------------------|
| 1. Adenohypophysis | (i) Epinephrine |
| 2. Adrenal medulla | (ii) Somatotropin |
| 3. Parathyroid gland | (iii) Thymosin |
| 4. Thymus gland | (iv) Calcitonin |

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

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

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

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

Answer:



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4. What is BMR ?

A. Body maltobolic rate

B. Basal mataboile rate

C. Body mass rate

D. Basal mass rate

Answer:



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5. Which of the following statement is correct

.....

A. Testosterone is produced by Leydig cells

under the influence of Luteinizing

hormone.

B. Progesterone is secreted by corpus luteum.

C. Oestrogen is secreted by Sertoliev cells.

D. Progesterone produced by Corpus Luteum is biologically different from the one produced by placenta.

Answer:



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6. Which of the following pair statement is incorrect ?

A. Humans-ureotelic

B. Birds-uricotelic

C. Lizards-uricotelic

D. Whale-ammonotelic

Answer:



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7. Inflammation of joints due to accumulation of uric acid crystals is called as

A. Myasthenia gravis

B. Gout

C. Osteoporosis

D. Osteomalacia

Answer:



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8. The olfactory impulses are transmitted to the Lobe of brain.

A. Parietal

B. Temporal

C. Occipital

D. Frontal

Answer:



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1. What is Regeneration ?



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2. Enumerate the functions of tapetum.



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3. Give an example for longest species of earthworm.



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4. Differentiate between Frog and Toad.



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5. Brief notes on spinal nerves.



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6. Explain the structure of nephron.



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Bio Zoology Part Iii

1. What is meant by phylogenetic classification?



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2. Compare Schizocoelom with Enterocoelom.



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3. Head of cockroach is called Hypognathous.

Why ?



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4. Draw the diagram and label the parts of micro villi.



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5. What are the advantages of artificial insemination ? D



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Bio Zoology Part Iv

1. Write brief notes on Diploblastic and Triploblastic with example.





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2. Explain the male reproductive system of frog.



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3. What are the disorders related to the excretory system ?



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4. Describe the life cycle of *Bombyx mori*.

Life cycle of *Bombyx mori*:



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