



BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

SAMPLE PAPER - 5 (SOLVED)

Bio Botany Part I

1. Identify the Archaeobacterium

A. Acetobacter

B. Erwinia

C. Teponema

D. Methanobacterium

Answer: D



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2. Endosperm in Gymnosperm is formed

A. at the time of fertilization

B. before fertilization

C. after fertilization

D. along with the development of embryo

Answer: B



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3. A true fruit is the one where

A. only ovary of the flower develops into
fruit

B. ovary and calyx of the flower develops into fruit

C. ovary , calyx and thalamus of the flower develops into fruit

D. all floral whorls of the flower develops into fruit

Answer: A



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4. Which of the following electron opaque chemical used in electron microscope

A. Strontium

B. Deuterium

C. Palladium

D. Uranium

Answer: C



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5. In S phase of the cell cycle

A. Amount of DNA doubles in each cell

B. Amount of DNA remains same in each cell

C. Chromosome number is increased

D. Amount of DNA is reduced to half in each cell

Answer: A



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6. Rolling & unrolling of leaves due to whether change are controlled by

A. Sensory cells

B. Motor cells

C. Subsidiary cells

D. Trichomes

Answer: B



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7. The inhibitory effect of oxygen in photosynthesis was first discovered by

A. Warburg

B. Van Helmont

C. Dutrochet

D. Desaussure

Answer: A



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8. The most widely occurring cytokinin in plants is _____

- A. Iso propyl adenine
- B. Iso pentenyl adenine
- C. Indole propionic acid
- D. Iso propionic adenine

Answer: B



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1. Define bacteria and bacteriology.



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2. Why do we use the term 'form genera' for fossil plants?



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3. Where does the inflorescence axis arise in cauliflorous type of inflorescence?



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4. Compare pinnate unicostate venation and palmate multicostate venation.



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5. Draw and label (a) Branchysclereids, (b) Osteosclereids.



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6. Nitrogen is a Macronutrient - Justify.



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1. How the vascular plants dominate the Earth?



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2. Explain the three different types of trailers with an example.



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3. Name any three synthetic auxins.



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4. Compare the Gynoecium of *Pisum sativum* and *Datura metel*.



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5. Draw the diagram representing oxygen evolving complex.



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1. Differentiate Gram positive and Gram negative bacteria.



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2. Describe *Allium cepa* in botanical terms.



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3. Differentiate between C_3 & C_4 plants.



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4. Classify and explain the plants based on photoperiodism.



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Bio Zoology Part I

1. True species are

A. Interbreeding

B. Sharing the same niche

C. Feeding on the same food

D. Repordictively isolated

Answer: D



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2. Which of the following snakes is non-poisonous?

A. Cobra

B. Krait

C. Viper

D. Python

Answer: D



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3. Match the List I and List II :

Common Nerve	Binomial Name
1. Earthworm	Periplaneta americana
2. Cockroach	Rana hexadactyla
3. Frog	Apis indica
4. Honey bee	Lampito mauritii

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

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

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

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

Answer: A



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4. JMV stands for

A. Juxta medullary nephrons

B. Juxta memory nephrons

C. Juxta medullary neuron

D. Juxta memory neuron

Answer: A



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5. Which of the following is an correct statement ?

A. Tuberculosis is a condition in which the pleura becomes inflamed.

B. Pulmonary embolism is a blood clot that occurs in the lungs.

C. Asthma is an infectious disease caused due to mycobacterium tuberculosis.

D. Lung cancer is an inflammation of the lining of your bronchial tubes.

Answer: B



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6. Which of the following is an incorrect statement?

A. Axial skeleton contains 80 bones.

B. Appendicular skeleton contains 126 bones.

C. Skull contains 28 bones.

D. Vertebral column contains 26 bones in adults.

Answer: C



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7. Visual area is located in

A. Occipital lobe

B. Parietal lobe

C. Frontal lobe

D. Temporal lobe

Answer: A



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8. It is a parathyroid gland.

A. Decreases blood Ca^{+2} level

B. Increases blood Ca^{+2} level

C. Promotes collagen synthesis by
osteoblasts

D. All of the above

Answer: B



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Bio Zoology Part Ii

1. What is cladogram? Draw a model cladogram.



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2. Distinguish between radiate and bilateria .



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3. Draw the diagram of Balanoglossus.



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4. What are the components of food?



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5. What is meant by osmotic regulation?



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6. What is periosteum ?



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Bio Zoology Part Iii

1. What are the three domains of life?



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2. Define typhlosole.



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3. Distinguish between parazoa and eumetazoa.



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4. Draw the diagram and label the parts of neuron.



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5. What are the different types of silk worms?



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Bio Zoology Part Iv

1. Class Mammalia:



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2. Explain the disorders of the respiratory system of man.



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3. Explain the Refractive errors of eye or defects of human eye.



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4. Briefly explain the structure of thyroid gland





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