



# **BIOLOGY**

## **BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)**

### **EXAMINATION QUESTION PAPER - JUNE 2019**

**Bio Botany Part I**

1. The book of "The structure and reproduction of the Algae" was published by.....

A. F.E. Fritsch

B. F.E. Round

C. R.E. Lee

D. M.S. Randhawa

**Answer: A**



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2. More than one locule ovaries are called.....

A. Plurilocular

B. Unilocular

C. Bilocular

D. Trilcular

**Answer: A**



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3. The two subunits of ribosomes remain united at critical ion level of

A. Magnesium

B. Calcium

C. Sodium

D. Ferrous

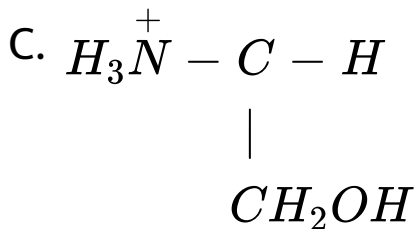
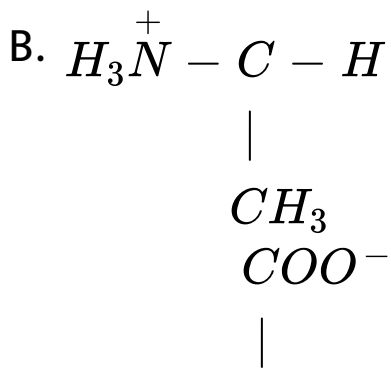
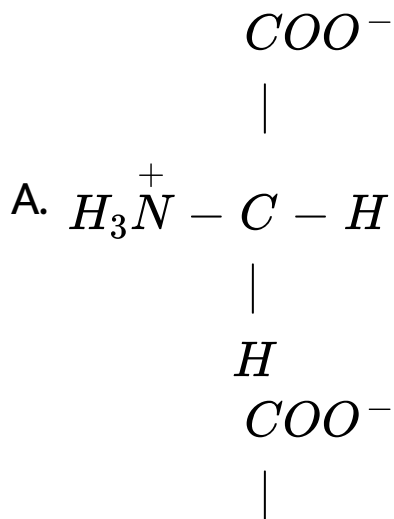
**Answer: A**

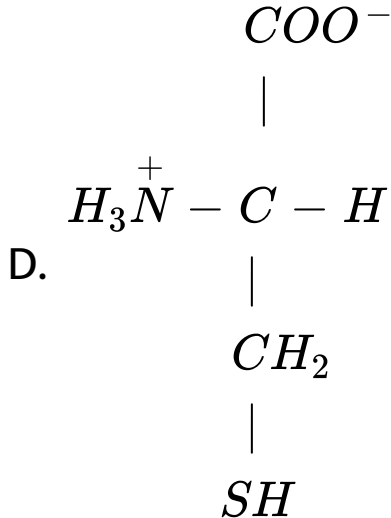


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4. The structure of Glycine ammo acid is

.....





**Answer: A**



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5. Polyderm is found in the roots and underground stems of family is.....

A. Rosaceae

B. Fabaceae

C. Solanaceae

D. Lilliaceae

**Answer: A**



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**6. In a fully turgid cell**

A.  $DPD = 10 \text{ atm}$ ,  $OP = 5 \text{ atm}$ ,  $TP = 10 \text{ atm}$ .

B.  $DPD = 0 \text{ atm}$ ,  $OP = 10 \text{ atm}$ ,  $TP = 10 \text{ atm}$ .

C.  $DPD = 0 \text{ atm}$ ,  $OP = 5 \text{ atm}$ ,  $TP = 10 \text{ atm}$ .

D.  $DPD = 20 \text{ atm}$ ,  $OP = 20 \text{ atm}$ ,  $TP = 10 \text{ atm}$ .

**Answer: D**



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7. Who proposed the "Theory of photosynthesis in guard cells" ?

A. Van Mohl



B. Sayre

C. Levit

D. Steward

**Answer: A**



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**8.** Which prevents flow of electrons from

$NADH + H^+ / FADH_2$  to CoQ ?

A. Cyanide

B. Oligomycin

C. Rotenone

D. 2, 4 DNP

**Answer: C**



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**Bio Botany Part Ii**

**1. We are using perfume to our body. Write the name of the plant and their product.**



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2. Write the floral formula of *Phyllanthus amarus*.



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3. Draw the diagram of conjoint, bicollateral and open of vascular system.



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4. How does the trees increase their girth ?



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5. State the electro-osmotic theory.



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6. Respiratory quotient is zero in succulent plants. Why ?



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## Bio Botany Part Iii

1. Do you agree that virus is living organism ?

If you say yes, justify your answer.



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2. You are looking like your father or mother in externally. Why ? Explain the reason.



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3. Write any three significance of mitosis .



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4. Which is determined you parental character  
? Describe about the structure.



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



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## Bio Botany Part Iv

1. Explain the Aerial modification of stern with an example.



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2. The plants also having the hormones like human being. What are they ? Explain the

physiological effect of any one.



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**3. Explain the Calvin Cycle (Flow chart only).**



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**4. Draw a flow chart depicting the Bentham and Hooker Classification.**



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1. Every unit of classification regardless of its rank is .....

A. Taxon

B. Variety

C. Species

D. Strain

**Answer: A**



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2. The zoological name of National Bird is:

A. Pavo Cristatus

B. Zoothera Salimalii

C. Columba livia

D. Chalcophaps indica

**Answer: A**



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3. Which one of the following is not true to simple epithelial tissue ?

- A. It is composed of a single layer of cells.
- B. Squamous epithelium is a type of simple epithelium which has flattened cells.
- C. Simple epithelium covers dry surface of the skin.
- D. Pseudo-stratified is a type of simple epithelium which lines the epididymis.

**Answer: D**



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4. The plasma proteins involved in the coagulation of blood is

A. Globuljn

B. Fibrinogen

C. Albumin

D. Serum amylase

**Answer: B**



5. Match Column-I with Column-II and choose the correct option.

Column - I      Column - II

P. Lipase      (i) Starch

Q. Pepsin      (ii) Cassein

R. Rennin      (iii) Protein

S. Ptyalin      (iv) Lipid

A.      (P)      (Q)      (R)      (S)  
       (iv)      (ii)      (i)      (iii)

B.      (P)      (Q)      (R)      (S)  
       (iii)      (iv)      (ii)      (i)

C.      (P)      (Q)      (R)      (S)  
       (iv)      (iii)      (ii)      (i)

D.      (P)      (Q)      (R)      (S)  
       (iii)      (ii)      (iv)      (i)

**Answer: C**



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6. Which one of the following diseases is caused due to our own body antibodies act against our own body substance?

- A. Tetany
- B. Osteoporosis
- C. Myasthenia gravis
- D. Gout

**Answer: C**



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7. Silk is obtained from\_\_\_\_\_.

- A. Laccifer lacca
- B. Nosema bombycis
- C. Attacus ricini
- D. Attacus mylitta

**Answer: D**



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8. The good egg layers an delicious breed is:

A. Chittagong

B. Leghorn

C. Plymouth

D. Aseel

**Answer: A**



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## Bio Zoology Part Ii

1. Compare closed and opened circulatory system.



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2. How does gall stones are formed ?



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3. At Tuticorin region, the pearl oyster diving people have some changes in their blood. State the reasons for it.



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4. Depolarization means reversal of polarity. Mention the ionic charge on both sides of axolemma.



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5. Expand the word SMGA and write its uses.



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6. In your class various height of students over there Why so? Write the reason



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**Bio Zoology Part Iii**

1. Hemichordates possess the characters of echinoderms and chordates. Write any 3 characters of echinoderms as well as chordates seen in hemichordates.



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2. Name the visual units of the compound eyes of cockroach.



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3. Give an examples for stenohaline and euryhaline.



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4. Brain is the chief organ of our body. It controls endocrine function by a special structure. What is the name of it? How does it control ?



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5. Write the difference types of silkworm in our country.



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## **Bio Zoology Part Iv**

1. Write a short note on buccal cavity of Frog.



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2. Explain the refractive errors of eye.



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**3.** Kidney functioning is regulated by hormonal feedback control mechanism. Explain this mechanism.



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**4.** Explain, how the combination of aquaculture and hydroponics techniques can successfully executed in our homes.



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