



# BIOLOGY

## BOOKS - SUPER COMPANION 5 IN 1

### IPUC ANNUAL EXAMINATION-2015 (SOUTH)

#### Part A

1. What is a taxon ?



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2. Write the binomial name of the plant mango.



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3. What is an actinomorphic flower?



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4. Define a cell.



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5. Name the proteins that are involved in the transport of molecules across the membrane.



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6. Define solute potential.



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7. Which is the most abundant plant pigment present in the world?



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8. What is chlorosis?



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9. Name the cell that secretes mucus. What are the functions of mucus?



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10. Name the hormone that is secreted by pineal gland.



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## Part B

1. Write the important rules of Binomial nomenclature Give one example.





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2. Name two symbiotic associations of Lichens.



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3. What are diploblastic animals? Name the phylum that exhibits diploblastic condition.



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4. Differentiate between open and closed type of vascular bundles.



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5. Name four main types of tissues present in animals.



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6. Classify the chromosomes based on the position of centromere.



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7. Give the meaning of the terms

Photoperiodism



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**8. Give the meaning of the terms**

Vernalisation



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**9. Name the protein filaments in myofibril.**



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1. Sketch and label the structure of chloroplast.



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2. How would you identify the following stages of meiosis-I.

Leptotene



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3. How would you identify the following stages of meiosis-I.

Zygotene



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4. How would you identify the following stages of meiosis-I.

Pachytene



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5. What are proteins? Name the most abundant protein present in plants and animals.



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6. Explain three phases of sigmoid curve.



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7. Give the meaning of the terms

Antiport



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8. Give the meaning of the terms

Osmosis



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**9.** Give the meaning of the terms

Guttation



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**10.** Describe briefly the digestion of three types of food by the enzymes of pancreas.



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**11.** Name the three layers of cranial meninges present between skull and brain.



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**12.** Mention the types of antigen and antibody present in different blood groups of man.



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**13.** What is uremia?



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## Part D

1. Write five general characteristic features of bryophytes.



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2. Draw a labelled diagram of Alimentary canal system of cockroach .







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3. Classify enzymes into five types based on the type of reactions they catalyse.



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4. Explain the major events of photochemical phase of photosynthesis.



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5. Give the schematic representation of glycolysis?



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6. Explain the mechanism of breathing.



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7. Assign the following animals to their respective phylum.

Comb jellies



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**8.** Assign the following animals to their respective phylum.

Pila



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**9.** Assign the following animals to their respective phylum.

Planaria





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**10.** Assign the following animals to their respective phylum.

Ascaris



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**11.** Assign the following animals to their respective phylum.

Star fish



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**12.** Assign the Sycon to their respective phyla.



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**13.** Write any four salient features of class Aves.



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**14.** What is aestivation? Mention any four types with one example for each.



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**15.** With the schematic representation explain Calvin Cycle.



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**16.** Sketch and label the structure of nephron.



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**17.** What is ECG? Explain it with the graphical presentation of a standard ECG.



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