BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

IPUC ANNUAL EXAMINATION-2016

Part A

1. Define metabolism.

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2. What is placentation?

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3. What are goblet cells ?

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4. Gram negative bacteria do not take stain- Give reason.

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5. Name the monomers of protein molecule.

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6. Define imbibation.

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7. What is 'critical concentration' of essential elements?

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8. Name the flat bone on Ventral midline of Thorax of Human body.

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9. Define Hormone.

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10. What are Polyribosomes?

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11. Name the famous botanical garden of England.

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12. What is gamopetalous corolla?

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13. Name the site of production of blood cells.

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14. Mitochondria are called powerhouses of a cell. Give reason.

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15. Name the most abundant animal protein in the world.

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16. What are Porins?

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17. What is chlorosis?

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18. Mention the main cause for 'Gout' disease.

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19. Which part of the ovary secretes progesterone.

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20. What are metacentric chromosomes.

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Part B

1. Define species. Write the biological names of any two plants.

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2. Write any four characters of virus.

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3. Enumerate four salient features of Pteridophytes.

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4. Mention the function of following organs.

Malpighian tubules

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5. Mention the function of following organs.

Comb plates

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

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7. What is Respiratory Quotient? Mention R.Q. value of proteins.

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8. Distinguish between Dedifferentiation and Redifferentiation

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9. Name any four types of Synovial joints.

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10. What are Plasmogamy and Karyogamy.

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11. State any two universal rules of binomial nomenclature.

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12. Distinguish between microsporophyll and megasporophyll of gymnosperms.

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13. What is a pseudocoelom? Give an example.

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14. Mention any four functions of plasma-membrane.

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15. Define glycolysis. Mention any two intermediate 3 carbon compounds produced during glycolysis.

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16. Removal of shoot tips, make the hedge in tea plantations. Give reasons.

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17. Mention four functional properties of muscle tissue.

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Part C

1. Pigments are the basis of classification of Algae - Justify the statement.

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2. Give the meaning of the following with an example each.

Parallel venation

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3. Give the meaning of the following with an example each.

Opposite Phyllotaxy

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4. Give the meaning of the following with an example each.

Trimerous flower

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5. Mention any six secondary metabolites of plants.

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6. Mention the phases of growth.

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7. Briefly explain the digestion of carbohydrates in small intestine.

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8. Summarise the mechanism of transport of oxygen in blood.

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9. Mention any three disorders of human excretory system.

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10. Describe the Diplontic life cycle pattern of plant kingdom.

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11. Classify the flowers based on the position of thalamus giving an example each.

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12. Explain the steps involved in catalytic cycle of an Enzyme action.

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13. What is fermentation? Name any two enzymes involved in this process.

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14. List out any three physiological role of Gibberellins in plant growth.

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15. Mention the importance of the following with reference to Human Digestive System.

Epiglottis

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16. Mention the importance of the following with reference to Human Digestive System.

Villi

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17. Mention the importance of the following with reference to Human Digestive System.

Saliva

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18. Describe the mechanism of gaseous exchange in alveolous and pulmonary capillary.

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19. Name any three excretory structures in invertebrates.

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Part D

1. Draw a neat labelled diagram of T.S. of Dorsiventral leaf.

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2. Explain the structure of chloroplast with a neat labelled diagram.

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3. Write any five differences between Mitosis and Meiosis.

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4. Explain Joseph-Priestly's experiments on photosynthesis using candle and a plant.

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5. Mention any one Hormone secreted by the following glands.

Adrenal gland'

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6. Mention any one Hormone secreted by the following glands.

Thymus gland

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7. Mention any one Hormone secreted by the following glands.

Pineal gland

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8. Mention any one Hormone secreted by the following glands.

Ovary

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9. Mention any one Hormone secreted by the following glands.

Testes

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10. Mention the function of following organs.

Forewings of Cockroach

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11. Mention the function of following organs.

Crop in alimentary canal of Corkcroach

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12. Mention the function of following organs.

Typhlosole in alimentary canal of Earthworm'

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13. Mention the function of following organs.

Setae in Earthworm

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14. Mention the function of following organs.

Spiracles of Cockroach.

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15. Describe the structure of stomatal apparatus in Dicot plants.

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16. Write the schematic representation of a Nitrogen cycle.

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17. Name the formed elements of Blood.

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18. Write a note on Erythroblastosis foetalis.

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19. List out any five salient features of phylum echinodermata.

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20. Draw a neat labelled diagram of T.S. of Dicot Root.

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21. Describe the structure of nucleus with a neat labelled diagram.

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22. Describe the events in phases of cell cycle.

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23. Name any five hormones secreted by pituitary gland.

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24. Comment on the following :

Symplastic pathway

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25. Comment on the following :

Guttation

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26. What is plasmolysis >

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27. Comment on the following :

Transpiration

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28. Describe the process of nodule formation in soyabean with diagrams.

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29. Draw a neat labelled diagram of neuron.

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