BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

PU BOARD QUESTION PAPER 02

Part A

1. What is a herbarium ?

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2. Define venation ?

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3. "Earthworms are called friends of farmers". Justify the statement.

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4. What are chromoplasts ?

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5. Name the organie compounds (non-protein constituent) present in certain enzymes that are tightly bound to the apoehzyme.

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6. Why are mitochondria called " power houses of the cell"?

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7. Define osmosis.

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8. Name the essential element that is present in chlorophyll.

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9. Name the red coloured oxygen storing pigment present in muscles.

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Part B

1. Mention the hormone that regulates 24-hour (diurnal) rhythm of human body.

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2. State any two universal rules of binomial nomenclature.

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3. Write any two classes of Kingdom Fungi with one example for each class.

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4. Why bryophytes are called amphibians of the plant kingdom ?

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5. Cycas is considered as a naked seeded plant. Give a scientific reason.

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6. Write any five differences between cartilage and bonyfishes .

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7. List two functions of Golgi bodies.

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8. Define respiratory quotient. Write the RQ value for glucose.

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9. Differentiate long day plants and short day plants.

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10. Mention two types of movements exhibited by the cells of human body with an example for each.

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Part C

1. Schematically represent the haplontic life cycle in plants.

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2. Explain any three types of aestivation in flowering plants.

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3. Differentiate homopolymers and heteropolymers (polysaccharides) with an example each.

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4. Write the schematic representation of steps involved in the formation of ethyl alcohol during fermentation of glucose.

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5. Write about any there disorders of the digestive system.

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6. What is : (a) Tidal volume, (b) Residual volume, (c) Vital capacity?

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7. How are differentiation, dedifferentation and redifferentiation different from each other ?

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8. Classify the animals with an example each based on the chief excretory product produced in them.

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Part D

1. List five characteristic features of birds.

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2. Describe the important events that occur during anaphase and telophase of mitosis.

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3. Draw labelled diagram showing the anatomy of the leaf of a typical monocot plant.

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4. Carbon, nitrogen, phosphrous, sulphur, calcium, etc, are considered as essential elements. What are the criteria for considering them as essential ?

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5. What is the role of leg-haemoglobin in leguminous plants ?

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6. Name a soil bacterium which helps in nutrification.

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7. Write the schematic representation of Calvin cycle.

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8. Mention one function each of the following hormones :

ADH

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9. Mention one function each of the following hormones :

Thymosin

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10. Mention one function each of the following hormones :

Glucagon

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11. Mention one function each of the following hormones :

Atrial natruiuretic fact

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12. Which of the following cells release erythropoietin hormone ?

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13. Draw a labelled diagram showing the ultrastructure of a plant cell.

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14. Classify simple epithelium and mention the structural modifications of cells in them.

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15. Explain pressure flow hypothesis of translocation of organic solutes.

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16. Explain the mechanism of coagulation of blood.

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17. Differentiate pulmonary and systemic circulations.