

BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

PU BOARD QUESTION PAPER 01

Part A

1. What is a herbarium?



2. Give an example for palmately compound leaf.



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3. Collenchyma is called a simple tissue. Why?



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4. What are mesosomes?



5. Mention the significance of meiosis.



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6. Define root pressure.



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7. Name the oxygen seavenger molecule that protects nitrogenase in nodules.



8. What is emphysema?



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9. Which blood group is called universal donor



10. Why the filtration of blood in Bowman's capsule is referred as ultrafiltration?



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Part B

1. Write any four character of fungi.



2. List any four salient features of phylum colelenterata.



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3. Give reasons for the following:

The blood vascular system in cockroach is considered as open type.



4. Give reasons for the following:

The vision in cockroach is referred as mosaic vision.



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5. Draw a labeled diagram of section of chloroplast.



6. What is vernalization? Mention any one of its importance.



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7. Explain how the exchange of O_2 and CO_2 is achieved between alveoli and deoxygenated blood.



8. Explain the role of Atrial Natriuretic factor in the regulation of kidney function.



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9. What is osteoporosis ? Mention the common cause that leads to osteoporosis.



1. List the important rules of binomial nomenclature. Write the scientific name of housefly.



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2. Define the terms : (i) Monodelphous condition (ii) Apocarpous condition (iii) Zygomorphic flower.



3. Write any three anatomical differences between dicot leaf and monocot leaf.



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4. Write a note on the G_0 phase of cell cycle.



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5. Draw a graph showing the typical growth curve and mark the phases of growth in it.



6. Give a brief account of absorption of fatty acids and glycerol in small inestine.



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7. Explain the mechanism of coagulation of blood.



8. Write a note an myosin protein.



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Part D

1. Write the general characters of angiosperms.



2. Write any four differences between chordates and non - chordates.



3. Draw a neat labelled diagram of the digestive system of the human body.



4. Mention any four functions of plasmamembrane.



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5. Explain how the p^H and concentration of subtrate affect enzyme activity with graphical representation.



6. What are macronutrients? Describe the roles played by calcium and magnesium in plants.



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7. Explain the events of C4 pathway. Mention any two special features of C4 plants.



8. Write the schematic representation of overall view of Citric Acid cycle.



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9. Describe the events of reflex action with a diagrammatic representation of knee jerk reflex.



10. What are hormone? Mention one function each for (i) ACTH (ii) Melatonin (iii) Parathyroid hormone (iv) Thymosin.

