



BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

ANNUAL EXAMINATION QUESTION

PAPER MARCH - 2014 (SOUTH)

Part A

1. In which group of algae , red pigment r - phycoerythrin is present ?



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2. Write the biological name of potato.



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3. Define mesophyll tissue.



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4. Name the bond present between monosaccharides in a polysaccharide.



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5. Write the energy currency of the cell.



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6. Define imbibition.



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7. Define hydroponics.



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8. Mention the normal blood pressure in human.



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9. Where is the pituitary gland located ?



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10. Mention the function of pericardium.



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Part B

1. Classify the bacteria based on their shape.



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2. Write the excretory organs of Arthropods.



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3. Write the excretory organs of class mammalia.



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4. Write shote note on epithelial tissue.



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5. Give any four examples for secondary metabolites.



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6. Mention any four forms of essential nutrient elements.



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7. List the different types of valves present in human heart.



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8. Write any four characters of skeletal muscles.



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9. Write short notes Gout.



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10. Write short notes Tetany.



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Part C

1. Who proposed five kingdom classification ?

Write the names of five kingdoms.



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2. Define the Hypogynous flower



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3. Define the Phyllotaxy



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4. Define the Venation



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5. Explain the structure of Stomata.



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



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7. Show the diagrammatic representation of exchange of gases between alveoli and blood.



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8. Discuss briefly the functions on PCT, henle's loop and DCT.



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1. State Blackmann's law of limiting factors ?



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2. Answer the following.

Discuss the various factors affecting the photosynthesis.



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3. Give the schematic representation of glycolysis?



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



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5. What are auxins ? List any four applications of auxins.



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6. Explain apoplastic and symplastic pathways of water movement in roots.



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7. Draw a labelled diagram of a neuron



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8. Discuss the uses of algae.



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9. Enumerate general characters of Mammals



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10. Explain the structure of mitochondria with a neat labelled diagram.



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11. Describe the various stages of prophase I of meiosis I.



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12. Discuss the role of pancreatic hormones in regulation of blood glucose level.



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