



BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

ANNUAL EXAMINATION QUESTION

PAPER MARCH - 2014 (NORTH)

Part A

1. What is museum ?



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2. Where do you find bulliform cells ?



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3. Mention the function of gizzard in cockroach.



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4. Who proposed the omnis cellula - e cullula ?



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5. Expand PPLO.



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6. What is Ammonification ?



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7. What is plasmolysis >



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8. Write the dental formula of man.



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9. What is emphysema ?



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10. State the function of fibrinogen in blood.



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Part B

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



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2. How are viroids different from viruses ?



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3. Sketch and label cardiac muscle tissue .



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4. Write any two differences between mitosis and meiosis.



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5. What is hydroponics ? Give one application of this technique.



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6. Mention the role of HCl in digestion.



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7. Haemoglobin is an Oxygen carrier. Explain.



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8. Name any two gonadotropic hormones, giving a function of each.



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Part C

1. Assign the Sycon to their respective phyla.



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2. Assign the Aurelia to their respective phyla.



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3. Assign the Liver fluke to their respective phyla.



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4. Mention the salient feature of family solanaceae





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5. What is vascular bundle ? Explain the types of vascular bundles.



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6. Describe the synopsis :



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7. Describe the bivalent :



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8. Describe the following :

Chiasmata.

Draw a diagram to illustrate your answer.



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9. How are the minerals absorbed by the plants ?



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10. Write a note on ultrafiltration.



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11. What is pace maker ?



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12. Define a cardiac cycle and the cardiac output.



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13. Describe the different types of movements exhibited by cells of the human body .



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1. Describe the important characteristics of gymnosperms .



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



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3. Write any five differences between cartilage and bonyfishes .



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4. With a neat labelled diagram explain the structure of mitochondria.



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5. Explain the mode of enzyme action .



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Section II

1. Explain the cyclic photophosphorylation with schematic representation .



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2. Draw a labelled diagram of multipolar neuron.



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3. Give the schematic representation of an overall view of Krebs cycle.



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4. What is photoperiodism ? What is its significance ?



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5. Explain sigmoid growth curve.



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