



BIOLOGY

BOOKS - VGS PUBLICATION-BRILLIANT

MODEL PAPER 7

Section A

1. Give the scientific name of Mango. Identify the generic name and specific epithet.



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2. What do the terms phycobiont and mycobiont signify?



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3. Who discovered the cell and what was the book written by him ?



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4. What types of specialized roots are found in Epiphytic plants? What is their function?



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5. Name a plant that has single fruit developing from the entire inflorescence. What is such a fruit called?



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6. What is Natural system of plant classification ? Name the scientists who followed it.



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7. Mention a single membrane bound organelle which is rich. in hydrolytic enzymes.



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8. What constituents of DNA are linked by glycosidic bond ?



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9. An anther has 1200 pollen grains. How many pollen mother cells must have been there to produce them ?



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10. Name the type of land plants that can tolerate the salinities of the sea.



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11. Differentiate between Protostomia and Deuterostomia.



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12. What is the haematocrit value?



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13. What is cephalization? How is it useful to its possessors?



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14. What is a sesamoid bone? Give an example.



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15. What is metagenesis? Animals belonging to which phylum exhibit metagenesis?



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16. What are Jacobson's organs? What is their function?



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17. Distinguish between Proter and Opisthe.



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18. What is a Kinetty?



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19. The eggs of *Ascaris* are called Mammillated eggs'. Justify



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20. Distinguish between neuston and nekton.



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Section B

1. Give the salient features and importance of chrysophytes.



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2. Write a note on economic importance of Algae and Bryophytes.



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3. List the changes observed in angiosperm flower subsequent to pollination and fertilisation.



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4. Describe the non-essential floral parts of plants belonging to Fabaceae.



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5. Differentiate between Rough Endoplasmic Reticulum (RER) and Smooth Endoplasmic Reticulum (SER).



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6. Though redundantly described as a resting phase, interphase does not really involve rest.

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7. What is periderm ? How does periderm formation take place in the dicot stems ?



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8. List the anatomical adaptations of hydrophytes.



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9. Write short not on the salient features of the anthozoans.



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10. Write the critical notes on the following
Eutrophication



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Section C

1. Explain how stem is modified variously to perform different functions.



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2. Describe the process of fertilization in angiosperms.



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3. Describe the internal structure of a Dicot Root .



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4. Write the critical notes on the following
Biological magnification.



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5. Describe the life cycle of *Plasmodium vivax*
in mosquito, with a neat labelled diagram.



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