



BIOLOGY

BOOKS - VGS PUBLICATION-BRILLIANT

MODEL PAPER 12

Section A

1. What is the basic unit of classification ?

Define it.



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2. How are viroids different from viruses?



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



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4. What is meant by pulvinus leaf base? In members of which angiospermic family do you find them?



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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. Name the type of pollination mechanism found in members of Fabaceae.



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7. Which part of the Bacterial cell is targeted in gram staining ?



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8. Explain the Zwitterionic form of an amino acid.



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9. If a tissue has at a given time 512 cells, how many cycles of mitosis had the original parental single cell undergone?



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



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Section B

1. Write the role of Fungi in our daily life.



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2. Differentiate between red algae and brown algae.



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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. What are nucleosomes ? What are they made of ?



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6. Which division is necessary to maintain constant chromosome number in all body cell of multicellular organism and why ?



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7. A transverse section of the trunk of a tree shows concentric rings which are known as annual rings . How are things rings formed ?
What is the significance of these rings ?



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8. List the anatomical adaptations of hydrophytes.



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Section C

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



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2. With a neat, labelled diagram, describe the parts of a mature angiosperm embryo sac. Mention the role of synergids.



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3. Describe the internal structure of a dorsiventral leaf with the help of labelled diagrams.



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Section A

1. What is Enterocoelom ? Name the enterocoelomate phyla in the animal kingdom.



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2. Distinguish between exocrine and endocrine glands with examples.



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3. What is the function of radula? Give the name of the group of molluscs which do not possess a radula.



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4. Name two poisonous and non-poisonous snakes found in South India.



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5. What is a Kinyty?



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6. What is a hyper-parasite ? Mention the name of one hyper- parasite.



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7. Mention two advantages of UV rays to us.



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Section B

1. Define Species. Explain the various aspects of 'Species'.



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2. Describe 'Green House Effect'.



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