



# BIOLOGY

## BOOKS - VGS PUBLICATION-BRILLIANT

### MODEL PAPER 8

#### Section A

1. Define the terms couplet and lead in taxonomic key.



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2. How are viroids different from viruses?



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3. Who is popularly known as father of Botany  
? What was the book written by him?



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4. What type of Inflorescence is found in fig trees? Why does the insect *Blastophaga* visits the Inflorescence of fig tree?



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5. Differentiate actinomorphic from zygomorphic flower.



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6. What is geocarpy ? Name the plant which exhibits this phenomenon.



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7. What is the significance of vacuole in a plant cell?



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**8.** Which tissue of animals and plants exhibits meiosis ?



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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.** Climax stage is achieved quickly in secondary succession as compared to primary succession . Why ?



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**11.** What is meant by tautonymy? Give two examples.



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**12.** Why is the true coelom considered a secondary body cavity?



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**13.** Mention any two substance secreted by mast cells with their functions.



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**14.** What is the strongest cartilage? In which regions of the human body, do you find it?



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**15.** Which arthropod, you have studied, is called a living fossil?

Name its respiratory organ.



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**16.** Name two poisonous and nonpoisonous snakes found in south India.

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**17.** Distinguish between lobopodium and filopodium. Give an example of each.

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**18.** What is kinecy?



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**19.** From which substances Smack and Coke are obtained?



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**20.** Which pollutants are mainly responsible for acid rains?



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## Section B

1. What are the characteristic features of Euglenoids?



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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. Give economic importance of plants belonging to Fabaceae.



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5. What are nucleosomes ? What are they made of ?



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



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7. State the location and function of different types of meristem.



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8. What are hydrophytes ? Briefly discuss the different kinds of hydrophytes with example.



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9. Discuss the causes and effects of global warming. What measures need to be taken to control it?



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## Section C

1. Explain different types of Racemos inflorescences.



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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 structures of a Monocot Root .



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