



BIOLOGY

BOOKS - VGS PUBLICATION-BRILLIANT

MODEL PAPER 10

Section A

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



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2. What is the principle underlying the use of cyanobacteria in agricultural fields for crop improvement ?



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3. Name different methods of vegetative reproduction in Bryophytes.



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4. Define venation. How do Dicots differ from Monocots with respect to venation.



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5. What is the morphology of cup like structure in Cyathium? In which family it is found?



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6. What is Omega Taxonomy ?



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7. What is middle lamella made of ? What is its functional significance ?



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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. Hydrophytes show reduced xylem . Why ?



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Section B

1. Give the salient features and importance of chrysophytes.



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2. What is meant by Homosporous and Heterosporous pteridophytes ? Give two examples.



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3. List three strategies that a bisexual chasmogamous flower can evolve to prevent self pollination (autogamy).



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4. Describe the essential floral parts of plants belonging to Lilliaceae.



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5. Describe the structure and function of Mitochondria



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



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7. What is the difference between lenticels and stomata ?



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8. Give in detail the anatomical adaptations shown by xerophytes.



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1. Define root. Mention the types of root systems. Explain how root is modified to perform different functions.



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2. Describe the process of fertilization in angiosperms.



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3. Describe the T.S of a Monocot stem .



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Section A

1. What is trinomial nomenclature ? Give an example.



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2. Mention the animals that exhibited a "tube - within - a-tube" organisation for the first time.

Name their body cavity.



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3. Define 'Osteon'.



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4. Distinguish between a tendon and a ligament.



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5. Which arthropod, you have studied, is called a "living fossil" ? Name its respiratory organs.



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6. Distinguish between Proter and Opisthe.



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7. What is meant by nocturnal periodicity with reference to the life history of a nematode parasite you have studied ?



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8. Name three meninges. In which group of animals do you find all of them?



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9. Distinguish between lobopodium and filopodium. Give an example to each of them.



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10. Define Mutualism. Give an example.



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Section B

1. Give an account of Glandular' Epithelium.



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2. Mention the salient features of Holothuroidea.



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3. Draw a neat and labelled diagram of Ommatidium.



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Section C

1. Give an account of flow of energy in an ecosystem.



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