

BIOLOGY

BOOKS - VGS PUBLICATION-BRILLIANT

MODEL PAPER 2

Section A

1. What does ICBN stands for?



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



3. Explain how the term Botany has emerged.



4. Which organ is modified to trap insects in Insectivorous plants? Give two examples.



5. Why certain fruits are called false fruits? Name two examples of plants having false fruits.



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6. What is Omega Taxonomy?



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7. Match the following

- (a) Cristae (i) Flate membranous sacs in stroma
- (b) Cisternae (ii) Ifoldings in mitochondria
- (c) Thylakoids (iii) Disc-shaped sacs in Golgi apparatus



8. What constituents of DNA are linked by glycosidic bond
?
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9. Which of the four chromatids of a bivalent at prophase-I
of Meiosis can involve in cross-over ?
of Melosis can involve in cross over :
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10. Define population and community.
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1. Give a brief account of Dinoflagellates.



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



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3. Give a brief account on the phases of the life cycle of an angiosperm plant.



4. Wite a brief note on semi-technical description of a typical flowering plant



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



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



7. What is the difference between lenticels and stomata?



8. Enumerate the morphological adaptations of xerophytes.



Section C

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



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

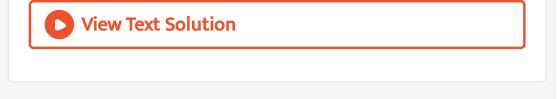


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3. Describe the internal structure of a dorsiventral leaf with the help of labelled diagrams.



1. Define the term histology. What is it otherwise called?
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2. Radial symmetry is an advantage to the sessile or slow
moving organisms. Justify this statement.
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3. Distinguish between a tendon and a ligament.
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4. What is the haemotocrit value ?



5. Distinguish between amphids and phasmids.



6. What are pneumatic bones? How do they help birds?



7. List any two differences between a flagellum and a cilium.



8. Why do we refer to the offspring, formed by asexual method of reproduction, a clone ?



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9. The eggs of Ascarisare called 'Mammailated eggs'. Justify.



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10. What is cyclomorphosisi ? Explain its importance in Daphnia.



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1. Explain in brief 'Biodiversity Hot Spots'.
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2. Describe the structure of a multipolar neuron.
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3. What are the salient features of the echinoids?
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4. List out eight characteristics that help distinguish a fish from the other vertebrates.

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5. Give an account of pseudopodia.



6. What are the adverse effects of tobacco?



7. Draw a neat and labelled diagram of the salivary apparatus of cockroach.



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8. What are the deleterious effects of depletion of ozone in the stratosphere?



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Section C

1. Describe the life cycle of Plasmodium vivax in mosquito.



2. Describe the respiratory system of cockroach with the help of neat labelled diagram.



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3. Describe different types of food chains that exist in an ecosystem.



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