



BIOLOGY

BOOKS - VGS PUBLICATION-BRILLIANT

MODEL PAPER 2

Section A

1. What does ICBN stands for ?



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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. Explain how the term Botany has emerged.



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



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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 |

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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 ?

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10. Define population and community.

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Section B

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.



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

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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. What is the difference between lenticels and stomata ?

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8. Enumerate the morphological adaptations of xerophytes.

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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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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 haematocrit value ?



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5. Distinguish between amphids and phasmids.



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



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



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



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9. The eggs of Ascaris are called 'Mammillated eggs'. Justify.



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



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Section B

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.



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6. What are the adverse effects of tobacco ?



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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.



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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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