



BIOLOGY

BOOKS - VGS PUBLICATION-BRILLIANT

MODEL PAPER 13

Section A

1. Name the books written Parasara and mention the important aspects discussed in those books.



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2. Which is the largest botanical garden in the world ? Name a few well known botanical gardens in India.



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3. What do the terms phycobiont and mycobiont signify?



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



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5. What are aggregate fruits? Give two examples.



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6. What is Omega Taxonomy ?



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7. What is the feature of a metacentric chromosome ?



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8. Give one example for each of aminoacids, sugars, nucleotide and fatty acids.



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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. Explain binomial nomenclature.



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2. Explain the scope of Botany taking plant physiology as example.



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3. Distinguish between asexual and sexual reproduction. Why is vegetative reproduction also considered as a type of asexual reproduction?



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4. Explain Floral formula.



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

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6. Differentiate between Rough Endoplasmic Reticulum (RER) and Smooth Endoplasmic Reticulum (SER).



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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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Section C

1. Explain different types of Racemos inflorescences.



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2. What are the possible types of pollinations in chasmogamous flowers ? Give reasons.



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3. Explain the process of secondary growth in stems of woody angiosperm with help of

schematic diagrams. What is the significance?



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Section A

1. Distinguish between exocrine and endocrine glands with examples.



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2. Which is the strongest cartilage ? In which regions of the human body do you find it?



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3. How do you justify the statement, 'heart in fish is a branchial heart'?



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4. In what way does tobacco affect respiration?
Name the alkaloid found in tobacco.

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5. Define commensalism. Give an example.

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Section B

1. Write a short note on in-situ conservation.



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2. Describe the male reproductive system of frog.



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3. What is summer stratification ? Explain.



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