



BIOLOGY

BOOKS - VIKRAM PUBLICATION (ANDHRA PUBLICATION)

MARCH - 2018- BOTANY

Section A

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



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2. What does ICBN stands for ?



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3. What do the terms phycobiont and mycobiont signify?



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4. Define placentation. What type of placentation is found in Dianthus.



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



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6. Define Alpha taxonomy and omega taxonomy



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7. Given that the average duplication time of E.coli is 20 minutes. How much time will two E.coli cells take to become 32 cells ?



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



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9. In which phase of the cell cycle DNA synthesis occur .



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10. Define communities ? Who classified plant communities into hydrophytes, mesophytes and xerophytes ?



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Section B

1. Give a brief account of Dinoflagellates.



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



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3. Discuss the various types of pollen tube entry into ovary with the help of diagrams.



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4. Describe the non-essential floral parts of plants belonging to Fabaceae.



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



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6. Give a brief account of the types of chromosomes based on the position of Centromere.



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7. What is periderm ? How does periderm formation take place in the dicot stems ?



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8. Write a brief account on classification of xerophytes.



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Section C

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



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2. Draw the diagram of a microsporangium and label its wall layers. Write briefly about the wall layers.



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3. Describe the internal structure of a Dicot Root .



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