



BIOLOGY

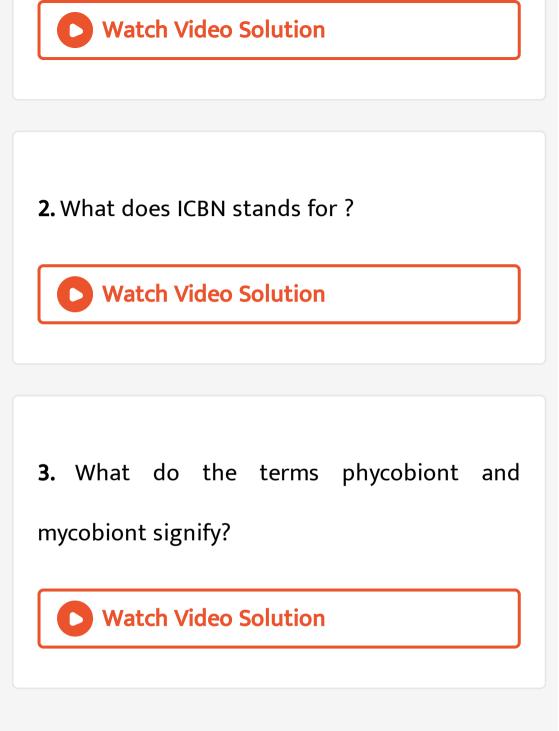
BOOKS - VIKRAM PUBLICATION (ANDHRA PUBLICATION)

MARCH - 2018- BOTANY



1. Who is popularly known as father of Botany

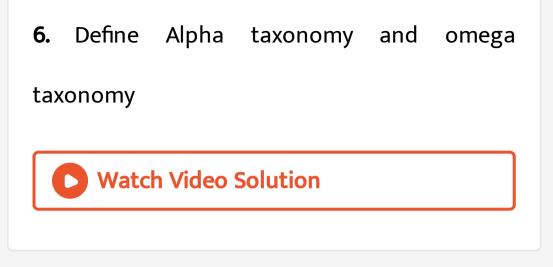
? What was the book written by hIm?



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.



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 ?



8. Give one example for each of aminoacids,

sugars, nucleotide and fatty acids.



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



10. Define communities ? Who classified plant

communities into hydrophytes, mesophytes

and xerophytes ?



Section **B**

1. Give a brief account of Dinoflagellates.

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



3. Discuss the various types of pollen tube

entry into ovary with the help of diagrams.

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).

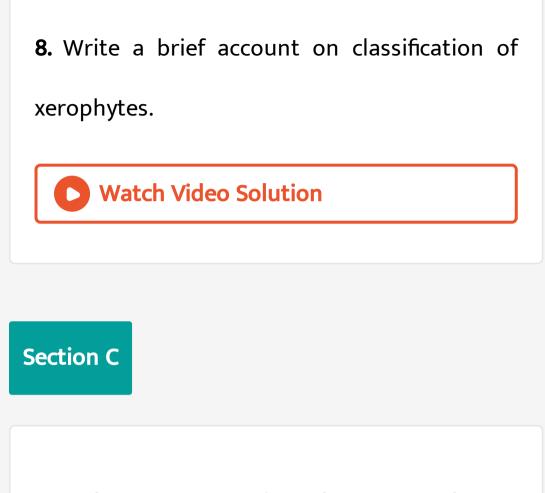
6. Give a brief account of the types of chromosomes based on the position of Centromere.



7. What is peridem ? How does peridem

formation take place in the dicot stems ?





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

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.