



BIOLOGY

BOOKS - VGS PUBLICATION-BRILLIANT

MODEL PAPER 14

Section A

1. What does ICBN stands for ?



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2. What is the nature of cell-walls in diatoms?



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3. What is Palaeobotany ? What is its use ?



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4. Differentiate fibrous roots from adventitious roots.



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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. Explain the scope and significance of Numerical Taxonomy.



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7. Which of the following is not correct?

(a) Robert Brown discovered the cell.

(b) Schleiden and Schwann formulated the cell theory.

(c) Virchow explained that cells are formed from pre-existing cells.

(d) A unicellular organism carries out its life activities within a single cell.



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8. Medicines are either man made (i.e., synthetic) or obtained from living organisms like plants, bacteria, animals etc. and hence the latter are called 'natural products. Sometimes natural products are chemically altered by man to reduce toxicity or side effects. Write against each of the following whether they were initially obtained as a natural product or as a synthetic chemical.

a) Penicillin_ b) Sulfonamide_ c) Vitamin C __. d)
Growth Hormone ___



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9. An anther has 1200 pollen grains. How many pollen mother cells must have been there to produce them ?



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10. Among Bryophytes, lichens and ferns which one is a pioneer species in a xerarch succession.



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Section B

1. Give the salient features and importance of chrysophytes.



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



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3. Differentiate between

a) Hypocotyl and Epicotyl

b) Coleoptile and Coleorhiza

c) Integument and testa

d) Perisperm and Pericarp



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4. Differentiate between

Coleoptile and Coleorhiza



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5. Differentiate between

Integument and Testa



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6. Differentiate between

Perisperm and Pericarp



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7. Write a brief account on the class of Dicotyledanae of Bentham and Hooker's classification.



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8. Describe the structure and function of Mitochondria



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1. In which phase of meiosis are the following formed ? Choose the answers from hint points given below.

a) Synaptonemal complex.....

b) Recombination nodules.....

c) Appearance /activation of a Enzyme recombinase.....

d) Termination of chiasmata

e) Interkinesis

f) Formation of dyad of cells.



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2. In which phase of meiosis are the following formed ? Choose the answers from hint points given below.

a) Synaptonemal complex.....

b) Recombination nodules.....

c) Appearance /activation of a Enzyme recombinase.....

d) Termination of chiasmata

e) Interkinesis

f) Formation of dyad of cells.



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3. In which phase of meiosis are the following formed ? Choose the answers from hint points given below.

Appearance / activation of Enzyme
recombinase



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4. In which phase of meiosis are the following formed ? Choose the answers from hint points given below.

- a) Synaptonemal complex.....
- b) Recombination nodules.....
- c) Appearance /activation of a Enzyme recombinase.....
- d) Termination of chiasmata
- e) Interkinesis
- f) Formation of dyad of cells.



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5. In which phase of meiosis are the following formed ? Choose the answers from hint points

given below.

Interkinesis



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6. In which phase of meiosis are the following formed ? Choose the answers from hint points given below.

Formation of dyad of cells



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7. State the location and function of different types of meristem.



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8. What are hydrophytes ? Briefly discuss the different kinds of hydrophytes with example.



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



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10. Describe the post-fertilisation changes in a flower.



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11. What are simple tissues ? Describe various types of simple tissues.



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