



# BIOLOGY

## BOOKS - VGS PUBLICATION-BRILLIANT

### MODEL PAPER 11

#### Section A

1. What is meant by manuals and monographs ?



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2. Name two diseases caused by Mycoplasmas.



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3. Name the stored food materials found in Phaeophyceae and Rhodophyceae.



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4. Differentiate actinomorphic from zygomorphic flower.



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5. Name a plant that has single fruit developing from the entire inflorescence. What is such a fruit called?



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6. What is Natural system of plant classification ? Name the scientists who followed it.



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7. What are microbodies ? What do they contain ?



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8. What are primary and secondary metabolites ? Give examples?



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9. If a tissue has at a given time 1024 cells. How many cycles of Mitosis had a original parental single cell undergone ?



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10. Climax stage is achieved quickly in secondary succession as compared to primary succession . Why ?



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## Section B

1. What are the characteristic features of Euglenoids?



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2. Differentiate between liverworts and mosses.



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3. List three strategies that a bisexual chasmogamous flower can evolve to prevent self pollination (autogamy).



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4. Give economic importance of plants belonging to Fabaceae.



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5. What are the characteristics of prokaryotic cells?



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6. 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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7. 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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8. 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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## Section C

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.



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.

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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4. A transverse section of the trunk of a tree shows concentric rings which are known as annual rings . How are things rings formed ?  
What is the significance of these rings ?



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5. Write a brief account on classification of xerophytes.



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6. Explain how stem is modified variously to perform different functions.



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



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8. What are complex tissues ? Describe various types of complex tissues.



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## Section A

1. What is meant by Tautonymy ? Give two examples.



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2. Mention any two substances secreted by Mast cells and their functions.

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3. What is Sesmoid bone ? Give an example.

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4. What is the function of Radula? Give the name of the group of molluscs which do not

possess a radula.



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5. Distinguish between Milt and Spawn.



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6. List any two differences between a Flagellum and Cilium.



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7. Define Conjugation with reference to Ciliates. Give two examples.



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8. What do you mean by parasitic castration?

Give one example.



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9. Why are incinerators used in hospitals ?



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