



BIOLOGY

BOOKS - VGS PUBLICATION-BRILLIANT

MODEL PAPER -13

Section A

1. Define water potential. What is the value of water potential of pure water?



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2. Define plasticity. Give an example.



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3. Define Microbiology



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4. Do you think Mendel's laws of inheritance would have been different if the characters

that he chose were located on the same chromosome ?



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5. Distinguish between heterochromatin and euchromatin. Which of the two is transcriptionally active ?



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6. Define stop codon. Write the codons.



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7. Give different types of cry genes and pests. Which are controlled by the proteins encoded by these genes ?



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8. What is meant by "hidden hunger"?



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9. Name a microbe used for statin production.

How do statins lower blood cholesterol level?



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10. Name any two genetically modified crops..



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Section B

1. How does ascent of sap occur in tall trees ?



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2. Write in brief how plants synthesize amino acids.



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3. Explain how, during light reaction of photosynthesis, ATP synthesis is chemiosmotic

phenomenon



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4. "Write the physiological responses of gibberellins in plants.



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5. What is ICTV ? How are viruses named ?



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6. Explain the Law of Dominance using a monohybrid cross.



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7. What are the important features of Genetic code ?



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8. Give a brief account of, Bt. cotton.



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Section C

1. What are the important events and end products of light, reactions?



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2. Give a brief account of the tools of recombinant DNA technology.



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3. Discuss how the property of plant cell totipotency has been utilized for plant propagation and improvement.



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