



BIOLOGY

BOOKS - VGS PUBLICATION-BRILLIANT

MODEL PAPER 6

Section A

1. Differentiate osmosis from diffusion.



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2. Where does the photolysis of H_2O occur ?

What is its significance ?



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3. What is conjugation? Who discovered it and in which organism?



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4. Who had proposed the chromosomal theory of the inheritance?



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5. What are the components of a nucleotide ?



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6. Write any two chemical differences between DNA and RNA.



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7. What are molecular scissors ? Where are they obtained from?



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8. Can a disease be detected before its symptoms appear ? Explain the principle involved ?



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9. Give two examples of fungi used in SCP production.



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10. Name any two-industrially important enzymes.



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1. Transpiration is necessary evil. Explain?



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2. What are the steps involved in formation of a root nodule?



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3. Write briefly about enzyme inhibitors.



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4. Write a note on agricultural / horticultural applications of auxins.



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5. Explain the structure of T-even Bacteriophages .



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6. Mention the advantages of selecting pea plant for experiment by Mendel.



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7. What are the important features of Genetic code ?



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8. What are some bio-safety issues concerned with genetically modified crops ?



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Section C

1. Explain the reactions of Krebs's cycle.



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2. Explain briefly the various processes of recombinant DNA technology.



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3. Describe the tissue culture. technique and, what are the advantages of tissue culture over conventional method of plant breeding in crop improvement programmes ?



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