



BIOLOGY

BOOKS - VGS PUBLICATION-BRILLIANT

MODEL PAPER 5

Section A

1. Differentiate osmosis from diffusion.



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2. Define the law of limiting factors proposed by Blackman.



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3. What are Pleomorphic Bacteria ? Give an example



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4. Define and terms phenotype and genotype.



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5. Who proved that DNA is genetic material ?

What is the organism they worked on?



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6. What is meant by Capping and Tailing ?



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7. What is down-stream processing ?



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8. What is GEAC and what are its objectives ?



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



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10. What are fermentors?



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Section B

1. Transpiration is necessary evil. Explain?



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2. Write in brief how plants synthesize amino acids.



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3. Write briefly about enzyme inhibitors.



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4. Write any four physiological effects of cytokinins in plants.



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5. Explain the structure of TMV.



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



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7. Write briefly on nucleosomes.



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8. List out the beneficial aspects of transgenic plants.



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Section C

1. Give an account of glycolysis, Where does it occur ? What are the end products? Trace the fate of these products in both aerobic, and anaerobic respiration.



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



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3. You are a Botanist working in the area of plant breeding. Describe the various steps that you will undertake to release a new variety.



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