



BIOLOGY

BOOKS - VGS PUBLICATION-BRILLIANT

MODEL PAPER 11

Section A

1. What are the competitive enzyme inhibitors
? Mention one example.



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2. Where does the photolysis of H_2O occur ?

What is its significance ?



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3. Name the Bacteria which is a common inhabitant of human intestine . How is it used in biotechnology ?



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4. What is point mutation? Give one example.



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5. What are the components of a nucleotide ?



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6. What is the difference between the template strand and a coding strand in a DNA molecule ?





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7. Name any two artificially restructured plasmids.



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8. Give any two reasons why the patent on Basmati should not have gone to an American company.



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9. A person who is allergic to pulses was advised to take a capsule of Spirulina daily.

Give reasons for the advice.



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10. Why does 'Swiss-Cheese' have big holes ?

Name the bacteria responsible for it.



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1. How does most of the water move within a healthy plant body and by which path ?



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2. Nitrogen is fixed into the soil not only by biological processes. Elaborate.



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3. With the help of a diagram, explain briefly the process of cyclic photophosphorylation.



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



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5. Draw a neat labelled diagram of Euglena:



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6. Explain the Incomplete Dominance with example.



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7. Define a cistron. Differentiate between monocistronic and polycistronic transcription units with suitable examples.



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8. List out the beneficial aspects of transgenic plants.



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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. 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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Section A

1. What is chyme ?



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2. Define glomerular filtration.



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3. What is triad system?





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4. What is organ of Corti?



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5. Which hormone is called anti-diuretic hormone ? Write the name of the gland that secretes it.



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6. What is erythropoietin? What is its function ?



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7. What in your view are the reasons for population explosion, especially in India ?



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8. What is 'amniocentesis' ? Name any two disorders that can be detected by

amniocentesis.



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9. List out any two Indian carps and two exotic carps



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10. MRI scan in harmless-justify.



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Section B

1. Describe disorders of respiratory system.



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2. Draw a neat labelled diagram of T.S. of leaf.



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3. Describe the structure of synovial joint with the help of a neat labelled diagram.



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4. Write short notes on B-cells..



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5. What is erythroblastosis foetalis?



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6. Distinguish between homologous and analogous organs.



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7. Write a short note on the theory of mutations.



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8. Explain in brief about queen bee.



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Section C

1. Describe the structure of the heart of man with the help of neat labelled diagram.



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2. Describe the male reproductive system in Human.



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3. What are multiple alleles Describe multiple alleles with the help of ABO blood groups in man.



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