



# BIOLOGY

## BOOKS - VGS PUBLICATION-BRILLIANT

### MODEL PAPER 8

#### Section A

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



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2. Distinguish between emission and absorption spectrum.



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



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4. Define and terms phenotype and genotype.



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5. What are the components of a transcription unit?



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6. Name any three viruses which have RNA as the genetic material .



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7. What is down-stream processing ?



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8. Name the nematode that infects the roots of tobacco plants. Name the strategy adopted to prevent this infestation.



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9. Name an immunosuppressive agent .



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

Name the bacteria responsible for it.



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**Section B**

1. Write in brief how plants synthesize amino acids.



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2. Explain different types of co-factors.



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



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4. What is meant by plasmolysis ? How is it practically useful to us ?



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5. Explain the lytic cycle with reference to certain viruses .



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## 6. Define and design a test cross



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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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