



BIOLOGY

BOOKS - VGS PUBLICATION-BRILLIANT

MODEL PAPER 7

Section A

1. How does guttation differ from transpiration ?



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2. Distinguish between apoenzyme and cofactor.



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3. What is a prophage ?



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4. What is point mutation? Give one example.



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5. Given below is the sequence of coding strand of DNA in a transcription unit :

3-AATGCAGCTATTAGG-5'.

Write the sequence of :

(a) its complementary strand (b) the mRNA.



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



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7. What is down-stream processing ?



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8. Give one example for each of transgenic plants which are suitable for food processing

and those with improved nutritional quality.

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9. What is meant by "hidden hunger"?

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10. Name the scientists who were credited for showing the role of Pencillin as an antibiotic.

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Section B

1. Explain pressure flow hypothesis of translocation of sugars in plants.



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2. Explain the Nitrogen cycle, giving relevant examples.



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3. Draw a neat labelled diagram of chloroplast.



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



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5. Explain the conjugation in bacteria



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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. 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. 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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