



BIOLOGY

BOOKS - VGS PUBLICATION-BRILLIANT

MODEL PAPER 2

Section A

1. What are Apoplast and Symplast ?



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



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3. What is a genophore ?



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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 transcription unit?



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6. Define stop codon. Write the codons.



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7. What is down-stream processing ?



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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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11. Name different types of papillae present on the tongue of man.



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12. What are the columns of Bertin ?



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13. Write the difference between actin and myosin.



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14. What is organ of Corti?



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15. Name the gland that increases in size during childhood and decreases in size during adulthood. What important role does it play in case of infection ?



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16. What is erythropoietin? What is its function ?



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17. It is true that 'MTP is not meant for population control. Then why did the Government of India legalize MTP ?



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18. Mention the advantages of 'actational amenorrhea method'.



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19. Mention any four fish by-products.



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20. How many amino acids and polypeptide chains are present in insulin?



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Section B

1. Define and explain water potential.



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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 the physiological responses of gibberellins in plants.



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



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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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9. Draw a neat labelled diagram of LS of tooth.



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10. What are the major transport mechanisms for CO_2 ?- Explain.



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



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12. Write short notes on Immunoglobulins.



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13. What is erythroblastosis foetalis?



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14. Distinguish between homologous and analogous organs.



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15. What is meant by genetic drift ? Explain genetic drift citing the example of Founder

Effect.



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16. Write briefly about different waves and intervals in an ECG.



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Section C

1. Explain the reactions of Krebs's cycle.



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2. Give a brief account of the tools 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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4. Write notes on the working of the heart of man.



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5. Describe the male reproductive system in Human.



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6. What is crisscross inheritance ? Explain the inheritance of one " sex linked recessive character in human beings.



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