



BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

SUPER MODEL QUESTION PAPER (FOR PRACTICE) 1

Part A

1. What is a clone?



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2. What is an anatropous ovule?



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3. What is spermeogenesis?



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4. What is azoospermia?



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5. What is test cross? Mention its significance.



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6. Define transcription?



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7. Define genetic drift?



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8. What is green revolution?



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9. What is the group of bacteria found in both the rumen of cattle and sludge of sewage treatment?



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10. What are molecular scissors ? Explain their role .



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Part B

1. What are the health risks associated with polluted water?



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2. Differentiate between primary and secondary succession.



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3. Explain the structure of pollen grains in Angiosperms.



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4. Mention one positive and one negative application of amniocentesis.



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5. Define linkage? Mention the different types of linkages.



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6. What are biofertilisers? Give examples of any two free living nitrogen fixing microorganisms.



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7. What are nucleases ? Distinguish between exonucleases and endonucleases .



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8. Write a note on Mutualism.



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Part C

1. With a neat labelled sketch, explain the structure of pBR 322.



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2. What is animal breeding? Explain the process of inbreeding and outbreeding with examples.



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3. Explain the following terms:

(a) Ectotherms

(b) Endotherms

(c) Commensalism

(d) Ammensalism.





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4. Give an account of causes of deforestation.



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5. Define Placenta?



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6. Draw a labelled diagram of V-S of maize grain.



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7. Define Binary fission, and illustrate binary fission in Amoeba.



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8. Draw the schematic representation of carbon cycle.



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Part D Section I

1. Draw a neat labeled diagram of T-S of a mature anther and explain the parts.



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2. What is sex determination? Explain briefly XX-XY.



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3. Briefly explain the steps involved in DNA finger printing?



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4. What was the experiment of Stanley Miller (1953) on the origin of life?



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5. Draw a well labelled diagram of an antibody molecule.



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6. Describe the regulation of lac-operon in E.coli.



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Part D Section Ii

1. Describe! briefly the Watson and Crick model of DNA.



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2. What is global warming?



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3. What is pollination? Distinguish between geitonogamy and xenogamy. Write the advantage and disadvantages of self and cross pollinations.



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4. Explain the steps involved in IVF-ET techniques.



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5. What is cancer? List the characteristics of cancer cells. Add a note on the classification of cancer based on their location?



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