



BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

SUPER MODEL QUESTION PAPER 5

Part A

1. What are gemmules?



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2. Name the stage of the occurrence of more than one embryo in a seed.



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3. Name the hormone secreted by sertoli cells.



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4. Write the Gause's principal.



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5. Mention any two methods of birth control.



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6. Define genetic code.



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7. What is paleontology?



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8. What is deforestation?



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9. Expand LAB?



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10. What is micropropagation?



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Part B

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



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



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3. Distinguish between homogametes and heterogametes.



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4. Darwin's finches represent one of the best examples for adaptive radiation. comment.



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



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6. Differentiate between primary and secondary succession.



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7. Mention any two application of DNA fingerprinting.



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8. Write any four characters of Down's syndrome?



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1. Name the Following

(i) Asexual productive structure of penicillin.

(ii) Vegetative propagules of agave.

(iii) The plant that flowers once in a twelve years.



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2. Differentiate between spermatogenesis and oogenesis.



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3. Enumerate the differences between B and T-lymphocytes.



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4. Explain the following terms.

(a) Eurythermal organisms.

(b) Immigration

(c) Natality



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5. (a) Draw an ideal pyramid and mention the units.



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6. (b) What is decomposition?



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7. How did industrial revolution in England offer an example to natural selection?





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8. Mention the pathogen, mode of infection and symptoms of pneumonia.



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9. Explain the post transcriptional events in eukaryotes .



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10. Describe the outbreeding devices that prevents autogamy.



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11. List the salient features of the Human Genome



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12. Describe the process of development of female gametophyte starting from MMC.



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



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14. Draw neat labeled diagram of the sectional view of human mammary glands.



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15. Write a note on a typical biogas plant. Explain how microbes help in the production of biogas.



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Part D

1. Define Innate immunity. Explain the barriers of innate immunity.



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2. Give a brief account of tissue culture. Also give the advantages of micro propagation.



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3. (a) Write diagrammatic representation of Recombinant DNA technology.

(b) Write a note on down stream processing.



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4. (a) Write diagrammatic representation of Recombinant DNA technology.

(b) Write a note on down stream processing.



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5. Briefly describe the different stages involved in decomposition.



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6. What is global warming? Briefly explain the effects of global warming? Add a note on control measures to reduce global warming.



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