



BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

SUPER MODEL QUESTION PAPER 4

Part A

1. Mention any two advantages of sexual reproduction.



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2. What is the normal gestation period for a human foetus?



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3. How many sense codons are there in the genetic code system?



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4. What is the proportion of double recessive offspring in the F₂ generation in a mendelian dihybrid cross?



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5. who proposed the concept of random genetic drift?



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6. What is inbreeding depression?



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7. Name any one source of SCP.



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8. What is GEAC?



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9. Give an example for commensalism.



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10. (a) What is jhum (slash and burn agriculture) cultivation ? How it accounts for deforestation. (b) What are the effects of ozone depletion ?



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1. what are the function of sertoli cells and Leydig cells?



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2. What is dormancy? Why is it necessary in seeds?



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3. Write a short note on haemophilia



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4. What are the nucleosomes? Mention their constitution.



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5. Name two substance that cause allergy in guman body.



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6. What is the role of selectable markers in gene cloning experiments



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7. Draw a neat labelled diagram of sparged tank bioreactor.



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8. what is a bio diversity hotspot?Give an example for it in our country.



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Part C

1. Mention the functions of placenta.



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2. What is polyembryony? Give an example.

How does it become useful?



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3. Draw a neat and labelled diagram of clovee

leaf model of tRNA.



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4. Mention any three stages in the evolution of human species.



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5. Mention the pathogen, mode of infection and symptoms of amoebiasis.



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6. Mention any three modes of transmission of HIV in humans.



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7. Write a note on biomagnification and its effects.



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1. Describe the process of development of pollen grains in angiosperms starting from PMC.



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2. Write out the charts showing both types of gametogenesis in humans and mention the important difference between the two.



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3. Give an account of different methods of asexual reproduction in animals.



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4. State the Hardy- Weinberg law and list the conditions under which the law would operate.



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5. With the help of chart, describe the monohybrid cross experiment of Mendel.



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6. Bring out the principal events in the replication of DNA.



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1. List any five useful products for man along with their microbial source.



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2. With suitable examples explain how plant breeding techniques have helped agriculture in india.



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3. What are GMOs? Explain with two examples how genetic engineering could be used in agriculture.



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4. Give an account of various types of interaction between population.



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5. Name any five atmospheric pollutants and mention their hazardous effects



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