



# BIOLOGY

## BOOKS - SUPER COMPANION 5 IN 1

### MODEL QUESTION PAPER 3

#### Part A

1. Define parthenocary.



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2. What is polyembryony?



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3. Why eukaryotic genes are called split genes?



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4. Define Law of dominance.



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5. Expand B.O.D.



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6. Write the binomial name of the organism that causes filariasis .



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7. Name the fungi which has symbiotic association with many plants.



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8. Why a pathogen *Agrobacterium tumifaciens* is generally used as a vector in plants for cloning .



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9. In which food chain dead organic matter occupies the base ?



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10. How is the sacred grove important in conservation of biodiversity ?



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## Part B

1. What is xenogamy? Mention its importance.



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2. Who wrote "origin of life"? What is the focal point of the bang theory?



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3. List the components of Operon concept.



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4. What are the causes of cancer?



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5. With reference to tissue culture, what is (i) Totipotency (ii) Somatic hybrids.



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6. What is REN? Where is it generally used?



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7. What are factors that are responsible for fluctuations of population growth.



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8. What is biomagnification? Give an example for it.



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## Part C

1. What kind of reproduction is seen in following organisms? Penicillium,



chlamydomonas and sponges.



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2. Define contraceptive. Mention any four important qualities of a good contraceptive.



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3. Why Mendel's work was not recognized?  
Give any three reasons.



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4. What is inborn immunity? Write note on any of them.



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5. Brief note on (i) inbreeding (ii) out breeding (iii) crossbreeding.



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6. Expand the abbreviation GMO. Write any four used of it.



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7. Draw a schematic representation of carbon cycle.



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8. Note on a case study of plastic waste.



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## Part D

1. Draw a neat diagrammatic view of the male reproductive system.



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2. A molecule that acts as genetic material must have some criteria. Mention those

criteria and write a note on it.



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3. With the help of a diagram explain plasmid BR322.



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4. Represent schematically, replication of retrovirus.



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5. Define and discuss the following terms, (a) Mutualism (b) Competition.



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



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7. Define aneuploidy. Name an autosomal hyperaneuploidy condition and mention its characters.



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8. Mention any five characters of genetic code and write a note on it.



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



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**10.** What are abiotic factors? Discuss the importance of any four factors.



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