



BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

SUPER MODEL QUESTION PAPER (FOR PRACTICE) 2

Part A

1. What is apomixis?



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2. What is an explant?



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3. Which are the common vectors used for cloning genes in plants?



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4. What is ecological niche?



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5. What is a food web?



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6. Give two anthropocentric causes for depletion of biodiversity?



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7. Which is the sure indicator of air pollution?



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8. What is oligospermia?



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9. What is a backcross?



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10. What is metastasis?



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Part B

1. List the differences between antigen and antibody.



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2. Differentiate between gametogenesis and embryogenesis.



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3. Draw a neat labelled diagram of an embryonic sac?



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4. Mention any two applications of DNA finger printing.



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5. Differentiate between inbreeding and outbreeding.



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6. What is Cry protein? Name an organism that produces it.



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7. What are mycorrhizae? Write their role in plants.



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8. Give two examples each of short day plants and day neutral plants.



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Part C

1. What is triple fusion and double fertilisation..Write the significance of double fertilisation?



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2. Describe human female mammary glands.



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3. What is family planning? Explain any three birth control methods in women.



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4. What is incomplete dominance? Explain with examples.



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5. Write a neat labelled diagram of the human sperm.



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



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



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8. List the differences between Natality and Mortality.



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Part D Section I

1. What is spermatogenesis? Give a brief account of spermatogenesis.



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2. Explain the structure of a typical dicotyledonous seed with a neat labelled diagram.



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3. What is parthenogenesis? Give an account of natural parthenogenesis?



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4. What is contraception? Explain the different methods of physiological natural contraception.



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5. What is endosperm? Explain the three types of endosperm with labelled diagram.



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1. Explain A. I. Oparin's Chemical evolution theory of origin of life?



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2. What do you mean by the development of an embryo? Support the answer with diagrams.



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3. Explain the process of translation in protein synthesis.



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4. What is Neo-Darwinism? What are its advantages over Darwinism?



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5. What is biogeochemical cycle? Explain carbon cycle.



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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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