



BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

SUPER MODEL QUESTION PAPER (FOR PRACTICE) 3

Part A

1. Define syngamy



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2. Define Apomixis.



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3. What is spermatogenesis?



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4. Mention any two methods of birth control?



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5. What is transcription?



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6. Define Phenotype.



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7. What is sarcoma?



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8. What is inbreeding depression?



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9. What are bioreactors?



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10. Which soil bacteria produces Bt toxins ?



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Part B

1. Differentiate gametogenesis from embryogenesis?



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2. Draw a neat labelled diagram of pollen grain with germ tube?



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3. Write labeled sketch of plasmid pBR 322.



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4. Give any four differences between external and internal fertilisation?



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



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6. Give two examples each of short day plants and long day plants.



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7. Write the major causes of biodiversity losses.



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8. What is acrosome? Mention its role in fertilization.



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1. What is ozone layer depletion? List the effects of ozone layer depletion?



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2. Explain the effects to temperature n plants and animals ?



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3. What is gene therapy? Explain the types.

Add a note on its applications?



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



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



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6. Draw a neat labelled diagram of VS of maize grain.



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7. Write notes on evolution according to Lamarck.



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8. Write a note on Apomixis or poly embryony.



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Part D Section I

1. Describe lac - operon concept in E- coli.



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2. Explain the steps involved in DNA finger printing?



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3. Explain Stanley - Miller's spark discharge apparatus experiment on the origin of life

with a neat labelled diagram.



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4. Explain with a schematic outline the phosphorus cycle.



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5. Explain Mendel's Dihybrid cross with an example.



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6. Explain the steps in plant tissue culture?



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Part D Section II

1. Draw the T.S. of mature anther and explain briefly.



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2. What is contraception? Make a list of birth control measures and explain the application of any two of them.



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3. Write short notes on :

(a) Sickle celled anaemia (b) Phenylketonuria.



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4. Define sewage. Explain the the two stages of treatment of sewage water.



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



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