



BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

SUPPLEMENTARY EXAMINATION

PAPER JUNE 2017

Part A

1. What is emasculation?



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2. Define genetic drift/Sewall Wright effects.



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3. Name the causative agent of elephantiasis.



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4. From which plant Morphine is extracted?



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5. Name a new breed of sheep developed in Punjab by cross breeding technique.



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6. What are Flocs?



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7. What is downstream processing?



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8. State Allen's rule.



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9. Mention a biodiversity hot-spot in India.



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10. Name the chemical compound responsible for the depletion of ozone layer.



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11. What is emasculation?



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12. Define genetic drift/Sewall Wright effects.



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13. Name the causative agent of Elephantiasis.



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14. From which plant Morphine is extracted?



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15. Name a new breed of sheep developed in Punjab by cross breeding technique.



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16. What are Flocs?



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17. What is downstream processing?



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18. State Allen's rule.



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19. Mention a biodiversity hot-spot in India.



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20. . Name the chemical compound responsible for the depletion of ozone layer.



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1. What is vegetative propagation? Give two suitable examples.



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2. Distinguish between geitonogamy and xenogamy.



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3. List any three criteria that molecule can act as a genetic material.



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4. What are Mendelian disorders?Mention any two of them.



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5. List any two methods of HIV transmission.



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6. Mention the accessory ducts of male reproductive system.



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7. Define Apiculture. List any two economic importance of it.



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10. Explain the experiment of Aveny to show DNA acts as genetic material.



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1. Define polymerase chain reaction. Name the enzyme used in it.



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2. (a) Differentiate between external fertilization and internal fertilization.

(b) Name the plant which produce flowers once in 12 years.



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3. What is male heterogamety? Explain sex determination in humans.



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4. Mention any three applications of DNA finger printing technique.



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5. (a) Differentiate between active immunity and passive immunity.

(b) Define allergy.



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6. Draw a labelled diagram of plasmid PBR 322.



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7. (a) Mention the functional components of ecosystem.(b) What is trophic level?



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8. (a) Mention any two causes of biodiversity losses. (b) What are endemic species?



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9. Give the schematic representation of a cyclic photo phosphorylation.



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1. (a) Explain any four outbreeding devices that prevents autogamy. (b) What is apomixis?



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2. Explain the inheritance of two genes' in pea plants with two suitable examples.



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



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4. What is infertility? How infertility is treated by assisted reproductive technologies like IVF-ET and ZIFT?



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5. Describe any five properties of genetic code.



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6. (a) Explain any four outbreeding devices that prevents autogamy. (b) What is apomixis?



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7. Explain the inheritance of two genes' in pea plants with two suitable examples.



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8. Draw a neat labelled diagram of human sperm.



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9. What is infertility? How infertility is treated by assisted reproductive technologies like IVF-ET and ZIFT?



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10. Explain two salient features of genetic code.



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Part D Section Ii

1. What is tissue culture? Mention any four application.



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2. With the help of neat labelled diagram explain Stanley Miller's experiment in support.



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3. Describe the role of microbes as biofertilizers.



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4. What is RNA interference? How does RNA interference helps to develop resistance in tobacco plant against Nematode infection?



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5. (a) List the responses of living organisms to abiotic factors. (b) What is commensalism? Give an example. (c) Name the type of interaction between algae and fungi in lichens.



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6. What is global warming? Mention the causes and effects of global warming.



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