



BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

SUPPLEMENTARY EXAMINATION

PAPER JULY -2014

Part A

1. What is menopause?



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2. Name the physical and physiological connection between maternal body and embryo (foetus).



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3. What is adaptive radiation?



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4. Mention the cells involved in cell-mediated immunity.



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5. What is Benign tumor?



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6. What is totipotency?



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7. What are biofertilisers?



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8. What is polymerase chain reaction?



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9. Define natality.



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10. Give an example for gaseous cycle.



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Part B

1. What are hermaphrodites? Give an example.



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2. Mention two symptoms of Turner's syndrome.



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3. What is a Homologous structure? Give an example.



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4. Draw a neat labelled diagram of an antibody.



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5. Mention any two measures to improve the quality and quantity of milk production.



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6. What is commensalism? Give an example.



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7. List out any two effects of loss of biodiversity.



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8. What are sacred groves? Give an example.



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1. Mention the units of vegetative propagation in plants.



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2. Draw a neat labelled diagram of longitudinal section of typical flower.



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



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4. Draw a labelled diagram of diagrammatic representation of Miller's experiment.



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5. List any three types of Innate Immunity barriers and give an example for each.



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6. Explain any three types major abiotic factors influencing the life of organisms.



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7. Comment : Compressed Natural Gas (CNG) is better than diesel.



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8. What is biomagnification? Name two well studied toxic substances causing this phenomenon.



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1. What is double fertilization? Describe fertilized embryo sac with a neat labelled diagram.



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2. What is spermatogenesis? Explain the process of spermatogenesis.



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3. (a) List three reasons for population explosion.

(b) Name human male and female sterilization procedures.



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4. State the law of independent assortment.

Write schematic representation of dihybrid cross.



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5. Describe Lac operon concept with labelled sketch.



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6. (a) What is poultry? Mention two important components of Poultry Farm Management.

(b) Define Inter-specific hybridization?



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1. Summarize major events of DNA fingerprinting technique.



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2. Explain different stages involved in sewage treatment.



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3. (a) Write diagrammatic representation of Recombinant DNA technology.

(b) Write a note on down stream processing.



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4. (a) What is Biopiracy? Explain it with reference to Basmati rice.

(b) What are genetically modified organisms?

Name two Bt-toxin producing plants.



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5. Define ecological pyramid? Describe pyramid of energy flow with a example.



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