



BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

SUPPLEMETARY EXAM QUESTION PAPER (WITH ANSWER) JUNE 2016



1. Mention the function of sertoli cells of testes.



2. What are plasmids?



3. Name the hormone secreted by corpus luteum.



4. Which bioactive molecule is used as an immunosuppressive agent?



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5. What are interferons?



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6. Name one microbe used in the production of single cell protein.



7. Name the theory which attempts to explain 'origin of universe'.



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8. Define Biochemical Oxygen Demand (BOD).



9. Name the diagnostic test for AIDS.



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10. State Gause's 'Competitive Exclusion Principle'.



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Part B

1. What are hermaphrodites?



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2. Write four symptoms of Down's Syndrome.



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3. What is adaptive radiation? Glve example.



4. Draw a labelled diagram of a Biogas plant.



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5. Alien species invasion leads to extinction of indigenous species' - Justify this statement by considering two animals as examples.



6. What is Ex-Situ conservation? Mention two examples.



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7. What is cross-breeding? Name a new breed developed by crossing Bikaneri ewes and marino rams.



8. Mention two techniques to make Host competent in r-DNA technology.



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Part C

1. Write the Homozygous Genotype of 'A,, 'B' and 'O' blood groups.



2. Explain the structure of matured pollen grain.



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3. Name the vegetative propagules of the following plants.

(a) Agave (b) Ginger (c) Bryophyllum



4. Differentiate between homologous and analogous organs by giving plant example.



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5. Draw a net labelled diagram of simple stirred tank bioreactor.



6. what are biogeochemical cycles? Mention two type by giving an example for each.



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7. Name the pathogen, vector and symptom of malaria.



8. Write the diadrammatic representation of pyramid of energy. Why pyramid of energy is always upright?



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Part D

1. Describe the structure of anatropous ovule with labelled diagram.



2. What is contraception Briefly explain two barrier methods and two surgical methods to present conception.



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3. What is incomplete dominance? Explain inheritance of flower colour in snapdragon



4. Explain working of Lac-operon with diagrammatic representation.



5. List out the salient features of double helix model of DNA.



6. Draw a neat labelled diagram of sectional view of human female reproductive system.

- 7. Give the meaning of the following terms.
- (a) Explant (b) Totipotency (c) Somaclones (
- d) Somatic hybrids € Micropropagation.



8. Explain the role of microbes in household food products.



9. What is population growth? Explain factors responsible for fluctuating population density.



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10. One of the applications of biotechnology is the production of insect resistant crop plants."

Justify the statement with reference to Bt-cotton.



11. Discuss the consequences of global warming and ozone layer depletion.

