



BIOLOGY

BOOKS - SUNSTAR BIOLOGY

(KANNADA ENGLISH)

II PUC BIOLOGY ANNUAL EXAM

QUESTION PAPER JULY - 2016

Part A

1. Mention the function of Sertoli cells of testes.



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2. What are plasmids ?



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3. Name the Hormone Secreted by Corpus Luteum.



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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.



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



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8. Define Biochemical Oxygen Demand (BOD).



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9. Name the Diagnostic Test for AIDS.



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



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1. What are Hermaphrodites ? Give two examples.



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2. Write four symptoms of Down's Syndrome.



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3. What is adaptive radiation? Give example.





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4. Draw a labelled diagram of a Biogas plant.



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5. 'Alien species invasion leads to extinction of Indigenous species' - Justify the statement by considering two plants as examples.



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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



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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.



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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



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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.



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6. What are Biogeochemical cycles ? Mention two types by giving an example for each.



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



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8. Write the diagrammatic representation of pyramid of energy.



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Part D

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



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2. What contraception ? Briefly explain two barrier methods and two surgical methods, to prevent conception.



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



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



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



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



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7. Give the meaning of the following terms :

a) Explant

b) Totipotency

c) Somaclones

d) Somatic hybrids

e) Micropropagation





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8. Explain the role of Microbes in House-hold food products.



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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.



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11. Discuss the consequences of Global-warming and ozone-layer depletion.



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