



BIOLOGY

BOOKS - SUNSTAR BIOLOGY

(KANNADA ENGLISH)

**II PUC BIOLOGY ANNUAL EXAM
QUESTION PAPER MARCH - 2015**

Part A

1. What is Biomagnification?



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2. Name a causative organism of pneumonia



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3. Give an example for adaptive radiation.



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4. Define Parthenogenesis.



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5. Papaya plants exhibit xenogamy only. Why?



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6. What is detritivour? Give example.



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7. What is cyclosporin A? Mention its use.



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8. Name the plant from which cocaine is obtained.



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9. Mention the technique used to separate DNA fragment in rDNA technology.



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10. Why is Oxytocin necessary for the parturition.



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Part B

1. Differentiate between menstrual cycle and estrous cycle.



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2. Mention any four sexually transmitted diseases.



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3. tRNA is an adaptor molecule. Comment.



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4. What is tumor? Distinguish between Benign tumour and malignant tumour.



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5. List any four hormones secreted by placenta.



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6. What are the conclusions drawn by T.H Morgan from the crossing experiment?



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7. Discuss the role of fungi as biofertilizers.



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8. Write a note on single cell protein.



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Part C

1. What is aneuploidy? Write any four symptoms of Down's syndrome.



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2. RNA polymerases in eukaryotes show division of labour substantiate.



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3. Suggest three assisted reproductive technologies to overcome infertility.



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4. Name asexual reproduction structure in: a.
Yeast b. Porifera



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5. Mention the types of Inborn defense mechanism with an example each.



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6. Draw a neat labelled diagram of a typical Biogas plant.



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7. What is endemism?



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8. Mention 'The Evil Quartet' of biodiversity loss



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9. How does pollination is achieved in vallisneria and sea grasses



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



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2. What is multiple ovulation and embryo transfer? Mention its application.



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3. Define out crossing. Give example.



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4. Describe the process of DNA replication with the help of a diagram.



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5. Explain the transverse section of young anther with a labelled diagram.



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6. Explain brood parasitism and sexual deceit as an interaction of species with an example each.



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7. With reference to flowers color in snapdragon, explain incomplete dominance.



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8. Give the diagrammatic representation of Miller's experiment.



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9. Insectical use has been reduced in BT crops. Why?



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10. Write a note on gene therapy.





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11. What are cloning vectors? Explain the features of cloning vectors.



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12. (a) What are the effects of ozone depletion?



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13. Elaborate BOD. BOD is an index of water pollution. Explain.



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14. What is ecological succession. Mention its stages.



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15. Represent an ideal pyramid of number in a grassland ecosystem



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16. Name the two type of nutrient cycles with an example each.



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