



BIOLOGY

BOOKS - SUNSTAR BIOLOGY

(KANNADA ENGLISH)

**II PUC BIOLOGY ANNUAL EXAM
QUESTION PAPER MARCH - 2016**

Part A

1. Name the molecular scissors used in recombinant DNA (rDNA) technology.



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2. What are sonaclones ?



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3. Define reforestation



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4. Name the enzyme by which the HIV genome replicates in the host cell.



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5. What is menarche?



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6. Name the disease diagnosed by Widal test.



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7. Ovulation takes place on the 14th day of menstrual cycle. Why ?



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8. What is Colostrum ?



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9. How do some species of insects and frogs avoid being detected easily by the predators ?



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10. Mention the use of statin.



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Part B

1. What is inbreeding depression ? How is it controlled ?



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2. Define biodiversity Write any two types of biodiversity.



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3. Why has T.H. Morgan selected fruit flies for his genetical experiments ?



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4. Differentiate seasonal breeders from continuous breeders.



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5. What are analogous organs? Give an example.



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6. Draw a neat labelled diagram of an antibody.



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7. Name any four recent extinct organisms as per IUCN Red list



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8. Draw a neat labelled diagram of a typical agarose gel electrophoresis.



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Part C

1.. Explain in brief the separation and isolation of DNA fragments.



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2. Mention any three characteristics of cancer cell. Mention its causes.



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3. What is ecological succession ? Distinguish primary succession from secondary succession.



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4. What is parthenogenesis? Give two examples.



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5. State Hardy - Weinberg principle. Mention any two factors that effect Hardy - Weinberg equilibrium. Write its equation.



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6. What is artificial hybridisation? By which technique is it achieved ?



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7. With reference to ecological succession define the following terms :

i)Climax community ii) Sere(s) iii) Pioneer species.



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8. Write the karyotype of the following syndromes:

i) Down's syndrome ii) Klinefelter's syndrome

iii) Turner's syndrome



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Part D

1. List the salient features of Human Genome.



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2. Explain the process of translation in protein synthesis.



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



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4. What are multiple alleles ? Give an example.



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5. Write the symptoms of Klinefelter's syndrome.



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6. What is infertility? How is infertility treated by assisted reproductive technologies like GIFT and ICSI ?



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7. Explain the structure of megasporangium.



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8. Write a brief account of functioning of 'Electrostatic Precipitator' with diagram.



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9. (a) what is Gene therapy ? Give an example

.

(b) Write a note on biography with reference to 'Basmati Rice' .



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10. Write a note on Biopiracy with reference to 'Basmati Rice'.



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11. What is inbreeding ? Mention the significance of inbreeding.



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12. Explain the role of microbes in 'Industrial Products'.



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13. What is adaptation?





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14. Write the causes and symptoms of 'Altitude sickness'.



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15. What is 'Brood Parasitism' ? Give an example.



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