



BIOLOGY

BOOKS - SUNSTAR BIOLOGY

(KANNADA ENGLISH)

**II PUC BIOLOGY ANNUAL EXAM
QUESTION PAPER MARCH - 2017**

Part A

1. What are hermaphrodites?



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2. Mention the asexual reproductive structure in sponges.



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3. What is Euchromatin?



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4. Why DNA replication is called semiconservative?



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5. Name the microbe used in the production citric acid .



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6. What is Micro-Injection?



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7. Define Mortality and Natality in population.



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8. Give two examples for gaseous cycle.



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9. Define Endemism.



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10. What is Eutrophication? Mention its causes.



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Part B

1. What are hormones? List the hormones produced by the placenta during pregnancy.



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2. What are sexually transmitted diseases?

Write any two simple principles to prevent sexually transmitted diseases.



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3. What caused down's syndrome. Mention four symptoms of Down's syndrome.



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4. What is Incomplete dominance? Give an example.

A. SES_PUC_SCI_BIO

B.

C.

D.

Answer:



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5. Write any two factors affecting Hardy - Weinberg principle .



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6. What is the significance of selectable marker in cloning vector ?



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7. Codon AUG has dual function - Justify.



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8. What are the criteria of DNA to act as a genetic material ?



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Part C

1. Name the types of vegetative propagules in following plants :

a) Potato

b) Ginger

c) Bryophyllum

d) Agave

e) Banana

f) Eichhornia



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2. What is pollination? Mention any four features of wind pollinated flowers.



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3. What is Infertility? Give reasons for infertility in female.



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4. What are analogous organs? Give an example.



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5. What are carcinogens? Mention any two groups of carcinogens with an example for each.



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6. Give the meaning of the following terms :

a) Explant

b) Totipotency

c) Somaclones

d) Somatic hybrids

e) Micropropagation



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



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8. Define biodiversity depletion. Mention three causes for biodiversity loss.



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Part D

1. Explain the structure of pollen grains in Angiosperms.



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2. Draw a neat labelled diagram of human male reproductive system.



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3. Explain Mendel's experiment to describe inheritance of one gene with reference to height of pea plants.



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4. List the salient features of Human Genome.



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5. Name the diseases caused by following organisms :

- a) Rhino virus.
- b) Epidermophyton.
- c) Salmonella typhi.
- d) Wuchereria malayi.
- e) Plasmodium vivax.



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6. What is Bee-Keeping? Write any four points for successful Bee-Keeping?



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7. Describe the biogas plant with a neat labelled diagram



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8. What is Biopiracy ?



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9. How ADA deficiency cured by gene therapy?



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10. (a) What is ecological succession?



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11. (a) What is Ecological succession?

(b) Write types of plant succession?

(c) Represent a pyramid of numbers in the grassland ecosystem.



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12. Represent pyramid of number in grassland ecosystem.



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13. Explain mutualism with examples in context to animals.



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14. Write a brief account of electrostatic precipitator with a neat labelled diagram.



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