



# **BIOLOGY**

**BOOKS - SUNSTAR BIOLOGY**

**(KANNADA ENGLISH)**

**II PUC BIOLOGY ANNUAL EXAM  
QUESTION PAPER MARCH - 2019**

**Part A**

1. Define reproductive cycle. Name the reproductive cycle that occur in non-primates.



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2. Name the layer of the uterus that exhibits strong contractions during parturition.



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3. Mention the total number of chromosome in human. Which chromosome of man has the least number of genes?



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4. Write the infectious forms of Plasmodium which enter human body through mosquito bite. What disease does it cause?



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5. Define hybrid. Given an example for an inter-specific hybrid animal.



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6. Write the scientific name of the source organism for citric acid. To which kingdom does it belongs to?



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7. Mention a gene that codes for insecticidal protein in Bt cotton. Name the protein it codes for.



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8. Define plasmid. Name the plasmid extracted from *Agrobacterium tumefaciens*.



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9. What is the main aim of Montreal Protocol?



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10. Define ecosystem. Name the type of food chain i.e the major conduit for energy flow in an aquatic ecosystem.



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1. What is embryogenesis? Mention two important events that occur during embryogenesis.



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2. Define point mutation. Give an example for point mutation.



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3. What are the conclusions drawn by T.H. Morgan from the crossing experiment in *Drosophila* with respect to linkage?



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4. What are allergens? Name the two chemicals released by mast cells in the body during allergy



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5. Write the four traits for which plant breeding is done.



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6. With an example, explain the convention for naming restriction endonucleases scientifically.



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7. A prey develops defence against a predator. Justify the statement with two examples in animals and plants.



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8. Mention any two mechanisms how human body compensates low oxygen availability at higher altitude.



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1. Write three advantages offered by the seeds of angiosperms.



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2. Draw neat labeled diagram of the sectional view of human mammary glands.



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3. How DNA is the better genetic material than RNA. Mention an organism with RNA as genetic material.



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4. Enumerate on convergent and divergent evolution with suitable examples in animals.



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



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6. Mention four tools required for recombinant DNA technology

b. With reference to gel electrophoresis, what is elution?



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7. What is ecological pyramid? Ecological pyramids have limitations. Justify the statement with three reasons.



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8. Describe three factors which affect on decomposition.



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1. What is megasporogenesis? Explain the development of eight nucleate embryo sac in flowering plants.



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2. What are Contraceptives? Explain four different non-surgical contraceptive methods.



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



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**4.** Explain five benefits of creating transgenic animals.



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5. Tropical region has greater biodiversity than temperate region. Justify the statement with three reasons.



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6. Elaborate CNG. The use of CNG is better than petrol or diesel. Give four reasons.



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7. Write the schematic representation of spermatogenesis.



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8. Where does fertilization occur? Write the two events that occur in the ovary and uterus during the follicular phase of menstrual cycle



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9. Why DNA replication is called semiconservative ?



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10. Draw a neat labelled diagram of Miller's experiment



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**11.** Name any two theories of origin of life. Mention two assumptions of oparin and Haldane with reference to "origin of life"



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**12.** Name the technology that can successfully increase the herd size of cattle in a short time and explain the steps involved in the technology



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**13.** What is biodiversity depletion? four "Evil Quartet" which cause depletion of biodiversity



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**14.** Define abiotic stress. Write two suspended activities in animals against abiotic stresses with suitable examples



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**15.** Among vertebrates and invertebrates which group of animals has the highest number in global biodiversity.



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