



# **BIOLOGY**

**BOOKS - SUNSTAR BIOLOGY**

**(KANNADA ENGLISH)**

**II PUC BIOLOGY ANNUAL EXAM  
QUESTION PAPER MARCH - 2014**

**Part A**

**1. What is ovulation?**



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2. What is gene pool?



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3. Name the cells that secrete androgens.



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4. Name the causative agent and vector of lymphatic filariasis.



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5. Mention the agent that causes allergy?



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6. Plant cells are totipotent. why?



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7. Mention the bacterium responsible for the large holes seen in Swiss Cheese.



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8. Define PCR. Mention its application.



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9. What is global warming?



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10. Define mortality.



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## Part B

1. Distinguish between homogametes and heterogametes.



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2. What is test cross? Mention its significance.



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3. Write a note on selection of plants among the progeny of the hybrids, with desired recombination of characters.



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4. What are homologous organs? Mention any two examples.



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5. What is immunity? Differentiate between active immunity and passive immunity.



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6. Draw a neat labeled diagram of stirred tank bioreactor.



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7. Introduction of some alien species causes biodiversity loss. Justify the statement with an example .



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8. What are sacred groves? Mention any two examples. Mention its role in conserving biodiversity.



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## Part C

1. (a) What are hermaphrodites? Mention one example,

(b) Offsprings of usexual reproduction are called clones. Why?



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2. Why offspring derived by asexual reproduction are called clones?



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3. Name the male gamete in a flower. Explain its structure.



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4. Mention causes and effects of phenylketonuria.



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5. List the period, brain capacity and probable food of Homo erectus stage of human evolution.



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6. Mention the different steps of process of recombinant DNA technology.



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7. (a) Draw an ideal pyramid of energy and mention the units. (b) What is a Lithosere ?



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8. What is an ecological succession?



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9. Distinguish between primary productivity and secondary productivity of an ecosystem.



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10. Define food web ?



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**11.** Describe the ill-effects of drug abuse in males and females. Also mention the preventive measures that is to be taken to reduce such effects.



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**Part D Section I**

1. Describe the out breeding devices that prevent the auto-gamy.



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2. Draw a neat labelled diagram of human sperm.



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**3. What is medical Termination of pregnancy?**

Mention the safe period for medical Termination of pregnancy.



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**4. Name any two sexually transmitted disease.**

Mention three methods to prevent sexually transmitted diseases.



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5. Write the schematic representation of dihybrid cross and mention the result.



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6. List the salient features of Human Genome.



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7. Mention the steps involved in DNA fingerprinting.





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8. Discuss the MOET technique of animal breeding.



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9. Differentiate between inbreeding and outbreeding



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**10.** Briefly describe the role of biological control agents, to control pests and diseases.



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**11.** 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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**12. State Gause's 'Competitive Exclusion Principle'.**



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**13. Mutualism is a method of population interaction. Explain with examples.**



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**14.** Define pollution. With reference to water pollution, explain biochemical oxygen demand, algal bloom, biomagnification and eutrophication.



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