



BIOLOGY

BOOKS - SUNSTAR BIOLOGY

(KANNADA ENGLISH)

II PUC BIOLOGY ANNUAL EXAM

QUESTION PAPER MARCH - 2018

Part A

1. What is implantation? Where does implantation take place?



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2. Write the restriction site of Eco RI enzyme?



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3. Define totipotency. Name two totipotent cells.



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4. Mention the role of Methanobacterium in rumen of cattle.



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5. What is foetal ejection reflex?



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6. Define Saltation.



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7. Name the type of Antibodies produced during Allergy?



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8. What are Eurythermal organisms? Give examples.



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9. Define biomagnification.



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10. Write the name of toxic substance responsible for fever and chill in malaria.



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1. What are Homogometes and Heterogametes?



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2. Mention any two examples of evolution by human activities.



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3. Distinguish between homozygous and heterozygous plants.



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4. What is Innate Immunity? Mention any two types of Innate Immunity barriers



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5. Which are the important components of Poultry Farm Management?



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6. Write the methods to introduce alien DNA into Host cells.



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7. Define Endemism. Name any two regions of accelerated habitat loss in India?



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8. Invasion of alien animal species eliminates the native animal species. Give two examples.



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1. Name the vegetative propagules of the following plants.

a) Agave

b) Ginger

c) Bryophyllum



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2. Draw a neat labelled diagram of T.S of young Anther.



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3. Describe Haplodiploid sex determination system in Honey Bees.



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4. State Hardy - Weinberg principle . Mention any four factors which affecting Hardy .



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5. Write a short note on ecosystem services.



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6. Sketch the diagrammatic representation of the Replication of Retrovirus inside an animal cell.



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7. What is ecological succession? How Hydrarch succession is different from Xerarch succession.





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8. Define vector. Draw a neat labelled Diagram of pBR322.



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Part D

1. Draw and describe the structure of a matured embryosac of angiosperms.



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2. Draw a neat labelled diagrammatic sectional view of female reproductive system.



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3. Define allele. Explain the inheritance of one gene with reference to stem height of pea plant.



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4. a. What are the features of an ideal contraceptive?

b. Mention the natural methods of contraception.



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5. Explain the following terms: Gene and Allele



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6. Explain the regulation of lac operon in absence and presence of lactose as an inducer.



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7. Oswald Avery and others have continued Griffith's transforming principle to prove DNA as genetic material . Substantiate.



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8. Describe the role of microbes in Sewage treatment plant.



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9. One of the applications of biotechnology is to get Pest resistance plants. Justify the statement with reference to Bt.Cotton.



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10. What are Ectoparasites and Endoparasites?

List any three parasite adaptations in animals?



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11. Write a note on the following :

a. Radioactive wastes

b. Joint forest management



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