



BIOLOGY

BOOKS - SUNSTAR BIOLOGY

(KANNADA ENGLISH)

II PUC BIOLOGY (P.U. BOARD LATEST

MODEL QUESTION PAPER - 1)

Part A

1. Name the type of pollination that brings genetically different types of pollen to the stigma.



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2. Mention the role of LH during spermatogenesis.



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3. What is foetal ejection reflex?



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4. With reference to the Mendelian laws of inheritance define the term "dominance".



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5. Which genetic disease is characterized by the reduced synthesis of haemoglobin?



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6. 'Evolution can also occur by anthropogenic action'. Give an example for this.



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7. Mention the role of Azospirillum as biofertilizer.



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8. "Gel electrophoresis is considered as a very important technique in recombinant DNA technology". Why?



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9. Define 'standing state'.



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10. How cryopreservation helps in the conservation of biodiversity?



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Part B

1. Give reasons for the following:

Compared to internal fertilization, external fertilization is disadvantageous to the animal.



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2. Give reasons for the following:

Chances of survival of young ones are more in viviparous animals than in oviparous animals.



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3. Write a note on double fertilization.



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4. How is nucleosome formed? Draw a diagram of the nucleosome.



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5. Mention any two physiological barriers that provide non-specific type of defense to our body.



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6. List any two bioactive molecules of fungal origin and explain how those molecules help in restoring good health in humans.



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7. Explain the method of introduction of alien DNA into bacterial cells.



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8. "Alien species are highly invasive and are a threat to local species". Substantiate this with any two examples.



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9. Mention any two effects of Ozone depletion on humans.



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1. Name the following:

The organism in which cell division itself is a mode of reproduction



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2. Name the following:

The type of reproductive cycle in non-primate mammals



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3. Name the following:

The plant that flowers only once in its life time



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4. List any six features of genetic code.



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5. Explain sex determination in birds.



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6. Mention the important points needed for successful beekeeping.



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7. Sketch and label a typical biogas plant.



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8. What is gene therapy? Explain the steps involved in curing ADA deficiency by gene therapy.



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9. Describe rivet popper hypothesis.



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10. "Ecosystems should carry a hefty price tag for its various services". Enlist any three of them.



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Part D Section I

1. Answer the following:

Write a note on Pollination in Vallisneria.



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2. Answer the following:

List the differences between microsporogenesis and megasporogenesis.



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3. Answer the following:

What is the number of chromosomes in each of the endosperm cells of a plant that has 36 chromosomes in its meiocytes?



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4. Draw a neat labelled diagrammatic view of human male reproductive system.



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5. Comment on the essential features required for an ideal contraceptive.



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6. Write a note on the steps involved in the creation of "test tube baby".



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7. Name a hormone releasing IUD.



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8. Explain the law of independent assortment with reference to seed shape and seed colour

in garden tea plant.



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9. With the help of suitable diagrams, explain the process of transcription in bacteria.



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10. What were the views of Charles Darwin about the evolution of life forms?



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Part D Section II

1. Explain how different techniques help in cancer detection and diagnosis.



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2. How does smoking cause oxygen deficiency in the body?



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3. Describe briefly the steps involved in the breeding of new genetic variety of crops.



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4. Explain how DNA is isolated from cells.



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5. Differentiate between exonuclease and endonuclease.



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6. What is the uniqueness of Taq polymerase?



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7. Name the type of interactions seen in each of the following examples:

a) *Ascaris* worms living in the intestine of humans.



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8. Name the type of interactions seen in each of the following examples:

(b) Wasp pollinating an inflorescence.



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9. Name the type of interactions seen in each of the following examples:

(c) Clown fish living among the tentacles of sea anemone.



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10. Name the type of interactions seen in each of the following examples:

(d) Disappearance of smaller barnacles when *Balanus* dominated the coast of Scotland.





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11. Name the type of interactions seen in each of the following examples:

(e) Five closely related species of warblers living on the same tree.



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12. With a neat labelled diagram explain the use of Electrostatic precipitator.



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