

BIOLOGY

BOOKS - SUNSTAR BIOLOGY (KANNADA ENGLISH)

II PUC BIOLOGY (P.U. BOARD LATEST MODEL QUESTION PAPER - 3)



1. Why pollen grains are very well preserved as fossils?



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2. Replication in the region of euchromatin would be faster. Justify.



3. With reference to Human Genome Project, what do SNPS refer to?



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4. Define genetic equilibrium.



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5. How does the administration of α interferons help cancer patients?

6. Write the scientific name of the microbe which is used in the manufacture of citric acid.



7. Mention the principle on which ELISA is based.



8. Logistic growth model is more realistic than exponential growth model. Why?



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9. Why is the pyramid of biomass in sea generally inverted?



10. What is the disadvantage of lead in petrol which is used as a fuel in modern automobiles?



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Part B

1. Why is water hyacinth called "the terror of Bengal"?



2. What do you understand by pericarp and perisperm?



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3. Differentiate spermiogenesis and spermiation.



4. How is ZIFT different from ICSI?



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5. Define pleiotropy. Mention an example.



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6. Write the scientific name of the plant from which cocaine is obtained. What is the effect of cocaine in humans?

7. Why is the introduction of genetically engineered lymphocytes into a ADA deficiency patient not a permanent cure? Suggest a possible permanent cure.



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8. Justify with the help of two examples where a deliberate attempt by humans has led to the

extinction of a particular species on earth.



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Part C

1. What is asexual reproduction? Explain encystation and sporulation in Amoeba.



2. Name the hormonal composition of the oral contraceptive used by human females, How does it help in contraception?



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3. Explain sex determination mechanism in honey bees.



4. Explain why DNA is a better genetic material than RNA.



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5. What is divergent evolution? Explain this with reference to the forelimbs of Cheetah and whales.



6. What is biofortification? Mention four examples for biofortified crops.



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7. What is Bt toxin? How does this toxin kill cotton boll worms?



8. Biodiversity plays a major role in providing many ecosystem services. Explain.



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Part D Section I

1. Explain the structure of megasporangium.



2. Draw a labelled diagram of human sperm.



3. With the help of suitble diagrams, explain the process of transcription in bacteria.



4. Write the schematic diagram of the life cycle of Plasmodium.

5. What is polymerase chain reaction? Name the bacterium from which the polymerase enzyme used in this technique is obtained. Write the schematic representation of this technique.



6. What is cultural eutrophication? Explain the stages involved in eutrophication.



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7. Explain thalassemia as an example for Mendelian disorder.



8. How is the herd size increased by Multiple Ovulation and Embryo Transfer (MOET) technology?



9. Differentiate out-crossing and cross breeding.



10. Explain the various stages in the secondary treatment of sewage.



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11. 'Parasitic mode of life ensures free lodging and free meals'. Justify listing the special adaptations developed by parasites.



12. Describe the various steps involved in the process of decomposition of detritus.

