



# **BIOLOGY**

## **BOOKS - SUNSTAR BIOLOGY**

### **(KANNADA ENGLISH)**

## **II PUC BIOLOGY SUPPLEMENTARY EXAM QUESTION PAPER JULY - 2018**

### **Part A**

**1. Define Menarche.**



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2. Name the disease caused by *Haemophilus influenzae*.



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3. Mention the importance of selectable markers in plasmids.



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4. Which is the fish caught in South Africa in 1938, which was thought to be extinct?



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5. Name the hormone released by the ovary in the later phase of pregnancy.



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6. Why meristems are preferred in tissue?





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7. Mention the type of Antibody present in the colostrum.



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8. Why mammals of colder climate generally have shorter ears and limbs?



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9. Where is ozone layer present? Name the unit used to measure ozone layer thickness.



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10. Mention the commercial importance of *Monascus purpureus*.



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1. Distinguish between menstrual cycle and oestrus cycle.



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2. What is test cross ? Write its significance.



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3. What are analogous organs? Give an example in animals.



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4. What is biofortification? Mention the objectives of biofortification.



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5. Draw a neat labelled diagram of structure of an antibody.



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6. What are palindromic nucleotide sequences ? Write the restrictions site for Eco - RI enzyme.



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7. Name any two species which have become extinct due to over exploitation.



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8. What are sacred grooves? Name any two sacred grooves of India.



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## Part C

1. Define asexual reproduction. Mention asexual structures in penicillium and sponge.



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2. Draw a neat labelled diagram of a typical Anatropous ovule of angiosperms.



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3. Write a note on colour blindness.



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4. Define adaptive radiation. Give two examples.





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5. What are ecological pyramids? Draw an ideal pyramid of energy and mention its units.



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6. What is biopsy test? Mention any two techniques of cancer detection and diagnosis.



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7. Write the important use of the following, in r- DNA technology

A) P.C.R

B) Ethidium bromide.

C) Bioreactor



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8. Describe the process of primary succession on bare rocks.



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1. A) What are false fruits? Give an example.

B) Write the characteristic features of insect pollinated flowers.



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



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3. A) Explain the following assisted reproductive technologies :

I) IVF-ET

II) ZIFT

III) ICSI

B) Name any two hormone producing IUD's.



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

in garden tea plant.



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5. Briefly describe the various steps involved in plant breeding.



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6. A) Mention the chemical linkages between the components of DNA.



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7. What are Euchromatin and Heterochromatin? Where are they found?



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## Part D Section Ii

1. What are VNTR's? Mention the steps to detect VNTR's in identifying criminals in forensic investigations.





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2. Draw a neat labelled diagram of a typical Biogas plant.



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3. B) Mention the beneficial role of anaerobic bacteria in secondary sewage treatment.



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4. List the benefits of transgenic plant.



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5. What is Population density? Write the factors that influence population density.



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6. What is exponential growth? Draw a graph showing exponential growth curve.



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7. C) What is sexual deceit ?

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8. Write a short note on the following :

(a) Green house gases (b) Catalytic converter

(c) Ultra-violet B (d) Ozone layer

(e) Electrostatic precipitator.

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