



# **BIOLOGY**

## **BOOKS - OSWAAL BIOLOGY**

### **(KANNADA ENGLISH)**

## **SOLVED PAPER II PUC TOPPER'S**

### **ANSWER MARCH - 2017**

#### **PART A**

**1. What are hermaphrodites?**



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2. Mention the asexual reproductive structure in sponges.



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3. What is Euchromatin?



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4. Why DNA replication is called semiconservative ?



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5. Name the microbe used in the production citric acid .



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6. What is Micro- Injection



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**7. Define mortality?**



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**8. Give an example for gaseous cycle.**



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**9. Define Endemism.**



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10. What is eutrophication



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## PART B

1. List the hormones produced by the placenta during pregnancy



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2. Write any two simple principle to prevent sexually transmitted disease.



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3. Write four symptoms of Down's Syndrome.



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4. What is Incomplete dominance? Give an example.



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5. Write any two factors affecting Hardy - Weinberg principle .



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6. What is the significance of selectable marker in cloning vector ?



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7. Codon AUG has dual function - Justify .



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8. What are the criteria of DNA to act as a genetic material ?





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## PART C

1. Name the types of vegetative propagules in following plants :

(a) potato (b) ginger (c ) bryophyllum



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2. What is pollination? Mention any four features of wind pollinated flowers



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3. What is infertility? Give reasons for infertility in humans.



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4. What are analogous organs? Give an example.



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5. Mention the types of carcinogens with an example for each



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6. Write the meaning of following terms : (a) Explantes (b) Totipotency (c) Somaclones.



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7. Draw a net labelled diagram of simple stirred tank bioreactor.



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8. Explain any three cause for biodiversity loss and write the name of one extinct species



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## PART D (SECTION - I)

1. Explain the structure of pollen grains in Angiosperms.



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2. Draw a neat labelled diagram of human male reproductive system.



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3. Explain mendel's experiment to describe inheritance of one gene with reference to height of pea plants.



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4. List the salient features of Human Genome.



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5. Name the diseases caused by following organisms :

- a) Rhino virus.
- b) Epidermophyton.
- c) Salmonella typhi.
- d) Wuchereria malayi.
- e) Plasmodium vivax.





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6. What is Bee-Keeping? Write any four points for successful Bee-Keeping?



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## PART D (SECTION - II)

1. Explain the components of a biogas plant with a neat labeled diagram.



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2. (a) What is biopiracy ?

(b) How ADA deficiency cured by gene therapy ?



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3. Represent pyramid of number in grassland ecosystem.



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4. Explain mutualism with examples.



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5. Write a brief account of electrostatic precipitator with a neat labelled diagram.



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