



BIOLOGY

BOOKS - OSWAAL BIOLOGY (KANNADA ENGLISH)

II PUC 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? Discuss the phenomenon of accelerated eutrophication.



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Part B

1. List any four hormones secreted by placenta.





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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. List any three criteria that molecule can act as a genetic material.



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Part C

1. Name the types of vegetative propagules in Potato plants.



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2. Name the types of vegetative propagules in Ginger plant.



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3. Name the types of vegetative propagules in Bryophyllum plants.



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



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



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6. What are analogous organs? Give an example.



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7. What are carcinogens? Mention any two groups of carcinogens with an example for

each.



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8. Write the meaning of Explant .



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9. Write the meaning of Totipotency.



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10. Write the meaning of Somachlones.



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



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12. (a) Mention any two causes of biodiversity losses. (b) What are endemic 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 the Human Genome



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5. Name the diseases caused by Rhino virus organism.



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6. Name the diseases caused by Epidermophyton organism.



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7. Name the diseases caused by Salmonella typhi organism.



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8. Name the diseases caused by *Wuchereria malayi* organism.



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9. Name the diseases caused by *Plasmodium vivax* organism.



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



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Part D Section Ii

1. Describe the biogas plant with a neat labelled diagram



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2. a) What is Biopiracy?

(b) How ADA deficiency is cured by gene therapy?



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3. a) What is Biopiracy?

(b) How ADA deficiency is cured by gene therapy?



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4. (a) What is ecological succession?



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5. Write types of plant succession.



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6. (b) Represent an ideal pyramid of numbers in a grassland ecosystem.



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7. Explain mutualism with examples.



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



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