



BIOLOGY

BOOKS - OSWAAL BIOLOGY

(KANNADA ENGLISH)

QUESTION PAPER 2019

Part A

1. Name the reproductive cycle that occur in non-primates.



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2. Name the layer of the uterus that exhibits strong contractions during parturition.



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3. Which chromosome of man has the least number of genes?



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4. Write the infectious forms of Plasmodium which enter human body through mosquito bite.



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5. Give an example for an inter-specific hybrid animal.



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6. Write the scientific name of the source organism for citric acid



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7. Mention a gene that codes for insecticidal protein in Bt cotton.



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8. Name the plasmid present in *Agroluderintumefaciens*.



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9. What is the main aim of Montreal Protocol?



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10. Name the type of food chain that is the major conduit for energy flow in an aquatic

ecosystem.



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Part B

1. What is embryogenesis? Mention two important events that occur during embryogenesis.



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2. Define point mutation. Give an example for point mutation.



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3. What are the conclusions drawn by T.H. Morgan from the crossing experiment in *Drosophila* with respect to linkage?



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4. What is an allergy? Name the two chemicals released by mast cells in the body during allergy.



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5. Mention four traits for which plant breeding is done.



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6. With an example, explain the convention for naming restriction endonucleases scientifically.



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7. A prey develops defence against predator. Justify the statement with two examples in animals.



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8. Mention any two mechanisms how human body compensates low oxygen availability at higher altitude.



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Part C

1. Write three advantages offered by the seeds of angiosperms.



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2. Draw neat labeled diagram of the sectional view of human mammary glands.



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3. DNA is the better genetic material than RNA. Justify the statement with three comparative reasons.



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4. Enumerate on convergent and divergent evolution with suitable examples in plants.



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



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6. Mention four tools required for recombinant DNA technology.



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7. With reference to gel electrophoresis, what is elution?



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8. Ecological pyramids have limitations. Justify the statement with three reasons,



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9. Describe three factors which affect on decomposition.



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Part D

1. What is megasporogenesis? Explain the development of eight nucleate embryo sac in flowering plants.



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2. What are Contraceptives? Explain four different non-surgical contraceptive methods.



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3. What is incomplete dominance? Explain inheritance of flower colour in snapdragon



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4. Explain the role of three organisms as biocontrol agents.



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5. What is the significance of BOD?



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6. Give an example for a fungus found in Mycorrhiza



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7. Explain the benefits of creating transgenic animals.



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8. Tropical region has greater biodiversity than temperate region. Justify the statement with three reasons.



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9. The use of CNG is better than petrol or diesel. Give four reasons.



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10. Write the schematic representation of spermatogenesis.



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11. Write the two events that occur in the ovary and uterus during the follicular phase of menstrual cycle.



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12. DNA replication is said to be semiconservative'. Why? Describe the experimental proof of Meselson and Stahl to show DNA replication is semiconservative.



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13. Draw a neat labelled diagram of Miller's experiment



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14. Mention two assumptions of Oparin and Haldane with reference to 'Origin of Life'.



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15. Name the technology that can successfully increase the herd size of cattle in a short time and explain the steps involved in the technology



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16. Mention four 'Evil Quartet' which cause depletion of biodiversity.



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17. Write two suspended activities in animals against abiotic stresses with suitable examples.



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18. Among vertebrates, which group of animals has the highest number in global biodiversity?



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