



BIOLOGY

BOOKS - OSWAAL BIOLOGY (KANNADA ENGLISH)

II PUC MARCH 2020 CLASS - XII

Part A

1. How many chromosomes are there in meiocytes of human beings?



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2. Name the inducer which regulates the switching on and off of the lac operon.



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3. Which type of R.N.A polymerase enzyme transcribes precursor m.R.N.A?



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4. The part of the flower which develops into a fruit is



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5. Name the fungus which produces cyclosporin A.



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6. (a) What are pioneer species in ecological succession?



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7. Which bacteria is commonly found in the anacrobic sludge during sewage treatment?



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8. Name the International treaty which controls the emission of ozone depleting substances.



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9. Define Endemism.



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10. What are Euryhaline organisms?



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Part B

1. Name the scientist who found out D.N.A and what was the name given by him?



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2. Mention the accessory ducts of male reproductive system.



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3. Mention the genotype of the parents when their children are with A, B, AB, O blood groups.



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4. Name two hormone releasing IUD's.



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5. What are the two types of disorders of human where the karyotype is 47?



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6. Name the two Primates those were existing in 15mya.



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7. Mention the two diseases resistance by mungbean through mutation breeding.



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8. Write the two basic amino acid residues which are rich in histones.



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Part C

1. Mention the asexual reproductive structures of Penicillium.



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2. Name the asexual reproductive structures of Hydra and Pencillium.



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3. Mention the asexual reproductive structure in sponges.



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4. With the help of neat labelled diagram explain Stanley Miller's experiment in support.



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5. Name the diseases caused by following organisms :

- (a) Rhinovirus.
- (b) Epidermophyton..
- (c) Salmonella typhi
- (d) Wuchereria malayi
- (e) Plasmodium vivax.



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6. Name the diseases caused by the following organism:

Wuchereria bancrofti.



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



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8. What is infertility ? Mention one Assisted Reproductive Technology (ART) .



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9. Draw schematically the phosphorus cycle in nature and mention what type of nutrient cycle it is?



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10. What is ecological succession? How Hydrarch succession is different from Xerarch succession.



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11. Alien species invasion leads to extinction of indigenous species' - Justify this statement by considering two animals as examples.



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12. Define Autogamy. write the two different kinds of flowers that exhibit autogamy.



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Part D Section I

1. What is double fertilization? Describe fertilized embryo sac with a neat labelled diagram.



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2. Explain the inheritance of two genes' in pea plants with two suitable examples.



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3. List the salient features of Human Genome.



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4. Define immunity and name two different types of immunity.



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



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6. Give the meaning of the following terms :

a) Explant

b) Totipotency

c) Somaclones

d) Somatic hybrids

e) Micropropagation



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7. With reference to tissue culture, what is (i)

Totipotency (ii) Somatic hybrids.





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9. Give the meaning of the following terms.

- (a) Explant (b) Totipotency (c) Somaclones (d) Somatic hybrids € Micropropagation.



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10. With reference to tissue culture, what is (i) Totipotency (ii) Somatic hybrids.



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11. Briefly explain the use of transgenic animals .



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Part D Section Ii

1. Draw a neat labelled diagrammatic sectional view of female reproductive system.



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



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3. Mention the population interactions exist among the following:

Abingdon tortoise and goats in galapagos islands.



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4. Mention the population interactions exist among the following:

Cuckoo lays eggs in crow's nest.



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5. Name the type of interactions seen in each of the following examples:

(c) Clown fish living among the tentacles of sea anemone.



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6. Name the type of interactions seen in each of the following examples:

(b) Wasp pollinating an inflorescence.



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7. Mention the population interactions exist among the following:

Orchid ophrys and bees.



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8. Differentiate between exonuclease and endonuclease.



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9. Explain the process of recombinant DNA technology.



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10. Explain a case study of remedy for plastic waste .



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11. Write a note on Radio active wastes.



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