



BIOLOGY

BOOKS - SUNSTAR BIOLOGY

(KANNADA ENGLISH)

ANNUAL EXAM QUESTION PAPER

MARCH -2020

**Part A Answer All The Question Each Question
Carries One Mark**

1. How many chromosomes are there in meicytes of housefly and human being.



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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. Name the part of the flower which develops into fruit and seed after fertilization.



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5. Write the scientific name of the organism which produces cyclosporine. A. To which kingdom does it belong to?



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6. What are Pioneer species? Give examples.



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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. Give examples.



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10. What are Euryhaline organisms?



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Part B Answer And Five Of The Following Questions Each Carries Two Marks

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



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2. Write the accessory ducts found in male and female reproductive system.



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3. Who discovered ABO blood groups?

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 Answer Any Five Of The Following Questions In About 40 To 80 Words Each

1. Mention the asexual reproductive structures of the following: Hydra and Poriferans.



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2. Give the diagrammatic representation of Miller's experiment.



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3. Name the diseases caused by the deficiency of Vitamin A and Vitamin B



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4. Define infertility? Write two assisted reproductive technology to overcome infertility in female.



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5. Draw the phosphorus cycle



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6. what is ecological succession? Mention two types of ecological succession.



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7. Alien species invasion leads to extinction of indigenous species' - Justify this statement by

considering two animals as examples.



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8. 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. Where are antibodies produced? Draw a neat labeled diagram of structure of an antibody

molecule.



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6. With reference to tissue culture explain the following terms: Explant and Media



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7. What are transgenic animals? Explain briefly how the transgenic animals benefit the human beings.



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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. Describe the biogas plant with a neat labelled diagram



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3. Mention the population interactions exist among the following: 1. Abingdon tortoise and goats in galapagos islands 2. Cuckoo lays eggs in crow's nest



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4. What are Endonucleases and Exonucleases. Give examples.



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5. (a) Write diagrammatic representation of Recombinant DNA technology.

(b) Write a note on down stream processing.



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6. Write a note on the following :

Remedy for plastic waste.



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7. Write a note on the following :

Radio active wastes and its disposal.



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