



BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

SUPPLEMENTARY EXAMINATION

QUESTION PAPER JUNE 2019

Part A

1. Name the finger like projections that appear on the trophoblast after the implantation.



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2. On which bacteria Griffith conducted transformation experiment?



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



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4. In which site of fallopian tube does fertilization take place?



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5. Mention the role of Alpha interferon in treatment of cancer.



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6. Which tissue is used as an explant to obtain virus free plants in tissue culture?



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7. Name the stain used to visualise DNA fragments in gel electrophoresis.



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8. What is Natalivity ?



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9. Which programme was introduced by the Government of India in 1980s to protect forest with the participation of local community.



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10. Define Biochemical Oxygen Demand (BOD).



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1. Differentiate between seasonal breeders and continuous breeders.



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2. Mention the reasons for population explosion.



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3. What is the karyotype in Turner's syndrome
? Mention two symptoms of the syndrome .



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4. Give any two examples for sacred grooves in
India.



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5. Name two species, which became extinct
due to over exploitation.



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6. Distinguish between Benign and Malignant tumor.



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7. Write the methods to introduce alien DNA into Host cells.



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8. Mention the tools used in recombinant DNA technology.



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Part C

1. Suggest any four measures to prevent sexually transmitted diseases.



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2. Write a note on a typical biogas plant.

Explain how microbes help in the production of biogas.



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3. Explain the mechanism of XO-type of sex determination in insects.



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4. (a) Write the function of filiform apparatus

(b) Write any four characteristics of flowers
pollinated by wind



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5. Mention the main three events in sexual



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



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7. (b) Distinguish between hydrarch and xerarch succession.



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8. Draw a schematic representation of the phosphorous cycle.



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9. Write a note on MOET.



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1. Describe the structure of dicot embryo 2. with the help of a labelled diagram.



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2. Mention the four barriers of innate immunity with an example for each.



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3. what is an allergy?



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4. What is commensalism? Explain with any two examples.



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5. How does our body overcome altitude sickness?



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



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7. Enlist the goals and applications of Human Genome project.



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8. State Hardy-Weinberg equilibrium and mention the factors affecting the equilibrium of a population.



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9. What are analogous organs? Give an example.



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10. Explain the inheritance of one gene with reference to stem height of Garden Pea plant.



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11. A molecule that acts as genetic material must have some criteria. Mention those criteria and write a note on it.



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12. Draw the schematic structure and explain the different regions of a transcription unit.



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13. If you are a successful beekeeper suggest the plants you would like to follow.



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14. List the benefits of transgenic animals.



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15. Note on a case study of plastic waste.



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