



BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

ANNUAL EXAMINATION QUESTION

PAPER -2015

Part A

1. What is Biomagnification?



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2. Name a causative organism of pneumonia.



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3. Give an example for adaptive radiation.



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4. Define parthenogenesis.



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5. Papaya plants exhibit xenogamy only. Why?



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6. What is detritus?



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7. Mention the use of Cyclosporin A.



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8. Name the plant from which cocaine is obtained.



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9. Mention the technique used to separate DNA fragments in rDNA technology.



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10. Why is oxytocin necessary for parturition?



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Part B

1. Differentiate between menstrual cycle and estrous cycle.



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2. Mention any four sexually transmitted diseases.



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3. tRNA is an adaptor molecule. Comment



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4. Distinguish between Benign tumour and Malignant tumour.



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5. List any four hormones secreted by placenta.



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



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7. Discuss the role of fungi as biofertilizers.



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8. Write a note on single cell protein.



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Part C

1. What is aneuploidy? Write any four symptoms of Down's syndrome.



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2. RNA polymerases in eukaryotes show division of labour. Substantiate.



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3. Suggest any three assisted reproductive technologies to overcome infertility.



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4. Name asexual reproductive structures in (1) Hydra (ii) Chlamydomonas (iii) Penicillium.



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5. Mention three types of Innate barriers of defence with an example each.



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6. (a) What is endemism?



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7. (b) Mention 'The Evil Quartet' of biodiversity loss.



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8. How is pollination achieved in vallisneria and sea grasses?



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Part D Section I

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





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2. (a) Write the steps involved in multiple ovulation and embryo transfer.

(b) Differentiate between outcrossing and cross breeding.



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3. Describe the Semiconservative method of DNA replication.



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4. Explain the transverse section of young anther with a labelled diagram.



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5. Explain Brood parasitism and sexual deceit' as an interaction of species with an example each.



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1. Draw a labelled diagram of diagrammatic representation of Miller's experiment.



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2. One of the applications of biotechnology is the production of insect resistant crop plants." Justify the statement with reference to Bt-cotton.



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3. Explain the features of cloning vectors.



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4. (a) What are the effects of ozone depletion?

(B) BOD is an index of water pollution.

Comment.



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5. (a) What is ecological succession?



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



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7. (c) Name the two types of nutrient cycles with an example each.



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