



BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

PUE MODEL QUESTION PAPER 1

Part A

1. What is polyembryony?



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2. Define saltation?



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3. Name the disease diagnosed by Widal is called solid waste test?



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4. Mention the chemical present in Heroin.



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5. What are somaclones?



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6. What are microbial flocs?



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7. What is insertional inactivation?



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8. Define Natalty?



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9. What is in situ conservation?



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10. Define solid wastes.



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Part B

1. What are vegetative propagules? Mention the vegetative propagules of (i) Agave (ii) Ginger



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2. Define syngamy and triple fusion.



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3. Name the hormones secreted by Leydig cells and corpus luteum.



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4. How do hormonal IUDs differ from non medicated. IUDs as contraceptives?



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5. Define the terms Linkage and recombination?



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6. Explain any two properties of genetic code.



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7. Distinguish between Benign and Malignant tumor.



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8. Differentiate between outbreeding and outcrossing?



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Part C

1. Explain the phases of life span in organisms.



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2. Mention' any three strategies of reproductive health.



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3. What are Mendelian disorders?Mention any two of them.



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4. Explain the post transcriptional events in eukaryotes .



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5. Name the pathogen, vector & symptoms of filariasis.



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6. What is ecological succession? Mention the types with an example.



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7. Mention any three ecosystem services to humans.



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8. Mention any three reasons of loss of biodiversity.



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Part D Section I

1. Mention any five differences between Microsporogenesis and Megasporogenesis.



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2. Draw a neat labelled diagram of human male reproductive system.



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



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4. Explain the structure of the Nucleosome.





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



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6. Describe the role of microbes in the production of industrial products.



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7. Draw a net labelled diagram of simple stirred tank bioreactor.



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8. In which ways genetically modified plants are useful?



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9. (a) Mention any four major abiotic factors.

(b) Name the type of interaction in the

following organisms.

(i) Fungi - Roots of higher plants.

(ii) Cattle - Egret

(iii) Cuckoo - Crow



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10. Discuss the consequences of global warming and ozone layer depletion.



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1. Briefly describe the various steps involved in plant breeding.



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