BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

PUE MODEL QUESTION PAPER 3

Part A

1. What is life span ?

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2. What is apomixis?

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3. Name the foetal sex determination test.

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4. Define alleles.

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5. Expand VNTR.

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6. What is totipotency?

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7. What are biofertilisers?

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8. Define biotechnology.

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9. Give an example for ex-situ conservation.

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10. Water hyacinth is called 'terror of Bengal'. Why?

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Part B

1. Distinguish between geitonogamy and xenogamy.

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2. Mention the functions of placenta.

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

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4. List the characteristic features of genetic code.

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5. What are analogous organs? Give an example.

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6. What is inbreeding depression? How is it controlled?

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7. Write a short note on biopiracy.

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8. Draw a neat diagram of a pyramid of membrane in a grassland ecosystem

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Part C

1. Write short notes on fertilisation.

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2. How do intrauterine devices prevent conception in humans?

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3. Mention the causes of Down's syndrome and add a note on symptoms.

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4. List any three criteria that molecule can act as a genetic material.

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

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6. Name the causative organism of the following diseases. (a) Typhoid (b) Malaria (c) Elephantiasis

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7. What are genetically modified organisms? Mention their significance.

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8. Name the three important components of biodiversity.

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Part D Section I

1. Describe the structure of mature embryosale

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2. State Law of segregation. Explain Mendal's Monohybrid cross with a suitable experiment.

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3. Explain the structure of antibodies.

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4. Explain the use of microbes in production of any five industrial products.

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5. Explain the structure of PBR322.

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6. What is ecology? Explain the major abiotic factors in any ecosystem.

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Part D Section Ii

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

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2. Explain Lac-Operon concept.

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3. Explain the carbon cycle.

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4. (a) Explain the role of dairy farm management in human welfare.

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5. . What is global warming? Explain causes and effects of global warming.

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