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BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

PUE MODEL QUESTION PAPER 5

Part A

1. Name a unicellular fungi which reproduces asexually by budding?

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2. Name the chemical present in the exine called a trophic level. wall of pollen grain.

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3. Define spermatogenesis.

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4. what is gene pool?

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5. Name the causative organism of ringworms.

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6. Which one change in the cause of sickle-cell anaemia?

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7. What is totipotency?

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8. Define polymerase chain reaction.

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9. Define trophic level?

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10. Name the unit used for measurement of thickness of Ozone in a column of air.

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Part B

1. Write the characters of a wind pollinated flower?

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2. What is codominance? Give an example.

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3. What is adaptive radiatien? Glve example.

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4. differentiate between active immuntiy and passive immuntiy.

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5. What is the key difference between primary and secondary sewage treatment?

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6. What are palindromic sequences? Give an example.

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7. Differentiate between Gross primary productivity and Net primary productivity

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8. What is biomagnification? Give an example.

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Part C

1. Write a note on Thalassemia?

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2. What are STDs? How can we prevent STDs?

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3. What are carcinogens? Give two examples.

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4. (a) What is endosperm?

(b) Differentiate between free nucellar and cellular endosperm with suitable examples.

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5. Define the following population attributes.

(a) Population density

(b) Sex ratio

(c) Mortality.

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6. (a) Define the terms monoecious and dioecious with respect to sexuality in plants mentioning examples for each.

(b) Distinguish between homogametes and heterogametes.

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7. Explain why we should conserve biodiversity?

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

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Part D Section I

1. (a) Explain how some plants are adapted for achieving pollination through insects.

(b). Explain how pollination takes place in vallisneria and submerged aquatic plants.

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2. What is menstrual cycle? Describe the different phases in it.

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3. What are sexually transmitted diseases ? Give examples. Mention the different modes of

transmission and prevention of sexually transmitted diseases.

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4. What are chromosomal disorders Describe the following chromosomal disorders in human beings a) Klinefelter's syndrome b) Turner's syndrome.

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5. Esplain the different steps involved in translation.

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6. (a) State Hardy-Weinberg equilibrium and mention the factors affecting the equilibrium of a population.

(b) What is convergent evolution? Give an example.

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Part D Section Ii

1. What is PCR? Explain the steps involved in amplification of Gene of interest using PCR.

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2. Explain hydrosere succession.

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3. What are adaptations? Discuss any four adaptations found in plants and animals.

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4. (a) Write a labelled diagram of a typical biogas plant.

(b) Differentiate between primary sludge and activated sludge.

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5. (a) With a neat labelled diagram explain the functioning of electrostatic precipitator.

(b) What is jhum cultivation? How it accounts for deforestation.

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