

BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

ANNUAL EXAMINATION QUESTION PAPER MARCH 2017

Part A

1. What are hermaphrodites?



2. Mention the asexual reproductive structure in spongs .



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3. What is Euchormatin?



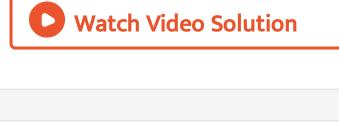
4. Why DNA replication is called semiconservative?



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



6. What is Micro-Injection



7. Define mortality?



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8. Give an example for gaseous cycle.



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9. Define Endemism.



10. Describe Eutrophication.



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Part B

List any four hormones secreted by placenta.



2. Write any two simple principle to prevent sexually transmitted disease.



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3. Write four symptoms of Down's Syndrome.



4. What is Incomplete dominance? Give an example.



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5. Write any two factors affecting Hardy - Weinberg principle .



6. What is the signficance of selectable marker in cloning vector ?



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7. Codon AUG has dual function - Justify.



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8. What are the criteria of DNA to act as a genetic marerial?

Part C

1. Name the types of vegetative propagules in following plants :

(a) Potato (b) Ginger

c)Bryophyllum



2. What is pollination? Mention any four features of wind pollinated flowers



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3. What is infertility? Give reasons for infertility in humans.



4. What are analogous organs? Give an example.



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5. What are carcinogens? Mention any two groups of carcinogens with an example for each.



6. Write the meaning of following terms : (a) Explantes (b) Totipotency (c) Somaclones.



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



8. Write the major causes of biodiversity losses.



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Part D

1. Explain the structure of pollen grains in Angiosperms.



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



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3. Explain mendel's experiment to describe inheritance of one gene with reference to height of pea plants.



4. List the salient features of the Human Genome



- **5.** Name the diseases caused by following organisms:
- (a) Rhinovirus.
- (b) Epidermophyton..
- (c) Salmonella typhi

- (d) Wuchereria malayi
- (e) Plasmodium vivax.



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6. What is Bee - Keeping? Write any four points for a successful Bee - Keeping?



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Describe the biogas plant with a neat labelled diagram

8. What is Biopiracy?



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- **9.** (a) What is Ecological succession?
- (b) Write types of plant succession?
- (c) Represent a pyramid of numbers in the grassland ecosystem.



10. Explain mutualism with examples.



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11. Write a brief account of electrostatic precipitator with a neat labelled diagram.

