



BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

ANNUAL EXAMINATION QUESTION

PAPER MARCH 2017

Part A

1. What are hermaphrodites?



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2. Mention the asexual reproductive structure in spongs .



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3. What is Euchormatin ?



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4. Why DNA replication is called semiconservative ?



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



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6. What is Micro- Injection



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7. Define mortality?



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8. Give an example for gaseous cycle.



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9. Define Endemism.



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10. Describe Eutrophication.



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Part B

1. List any four hormones secreted by placenta.



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



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3. Write four symptoms of Down's Syndrome.



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4. What is Incomplete dominance ? Give an example .



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



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6. What is the significance 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 material ?



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Part C

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

(a) Potato (b) Ginger

c) Bryophyllum



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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.



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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.



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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.



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8. Write the major causes of biodiversity losses.



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Part D

1. Explain the structure of pollen grains in Angiosperms.



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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.



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4. List the salient features of the Human Genome



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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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7. Describe the biogas plant with a neat labelled diagram



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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.



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10. Explain mutualism with examples.



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



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