



# BIOLOGY

## BOOKS - SUPER COMPANION 5 IN 1

### SUPPLEMENTARY EXAM QUESTION

### PAPER MARCH 2018

#### Part A

1. Define implantation.



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2. Write the restriction site of EcoRI enzyme.



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3. What is totipotency?



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4. Mention the role of Methanobacterium in rumen of cattle.



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**5. What is foetal-ejection reflex?**



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**6. Define saltation?**



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7. Name the type of antibodies produced during allergy.



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8. What are eurythermal organisms?



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9. Define Biomagnification.



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10. Write the name of toxic substance responsible for fever and chill in Malaria.



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## Part B

1. Distinguish between homogametes and heterogametes.



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2. Mention any two examples of evolution by anthropogenic action.



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3. Distinguish between homozygous and heterozygous plants.



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4. What is innate immunity? Mention the four types of barriers of innate immunity.



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5. Which are the important components of Poultry Farm Management?



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6. Write the methods to introduce alien DNA into Host cells.



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7. Define Endemism. Name any two regions of accelerated habitat loss in India.



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8. Alien species invasion leads to extinction of indigenous species' - Justify this statement by considering two animals as examples.



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## Part C

1. Mention the vegetative propagules of the following plants.

(a) Water Hyacinth (b) Agave (c) Banana



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2. Draw a neat labelled diagram of T.S of young Anther.



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3. Describe Haplodiploid sex determination system in Honey Bees.



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4. State Hardy-Weinberg equilibrium and mention the factors affecting the equilibrium of a population.



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5. Write a short note on ecosystem services.



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6. Sketch the diagrammatic representation of the Replication of Retrovirus inside an animal

cell.



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7. What is ecological succession? Distinguish primary succession from secondary succession.



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8. Draw a neat labelled diagram of plasmid pBR322.



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## Part D Section I

1. Draw and describe the structure of a matured embryosac of angiosperms.



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2. Draw a neat labelled diagrammatic sectional view of female 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. (a) What are the features of an ideal contraceptive?

Mention the natural methods of contraception.



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5. Explain the following terms :

(a) Inbreeding depression

(b) Interspecific hybridisation

(c) Biofortification

(d) Micropropagation

(e) Somaclones.



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6. Describe the regulation of lac-operon in E.coli.



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## Part D Section Ii

1. Oswald Avery and others have continued Griffith's transforming principle to prove DNA as genetic material . Substantiate.



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2. Describe the role of Microbes in sewage treatment plant.



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3. One of the applications of biotechnology is to get pest resistant plants. Justify the statement with reference to Bt. cotton.



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4. (a) What are Ectoparasites and Endoparasites?

(b) List any three parasitic adaptations in animals.



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5. Write a note on the following :

(a) Radio active wastes

(b) Jooit forest management.



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