



BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

ANNUAL EXAMINATION QUESTION

PAPER MARCH -2014

Part A

1. What is ovulation?



Watch Video Solution

2. Name the cells that secrete androgens.



[Watch Video Solution](#)

3. what is gene pool?



[Watch Video Solution](#)

4. Name the causative agent of elephantiasis.



[Watch Video Solution](#)

5. what is an allergy?



[Watch Video Solution](#)

6. Plant cells are totipotent. Why?



[Watch Video Solution](#)

7. Mention the bacteria responsible for the large holes seen in Swiss Cheese'.



Watch Video Solution

8. Define polymerase chain reaction.



Watch Video Solution

9. What is global warming?



Watch Video Solution

10. Define mortality?



[Watch Video Solution](#)

Part B

1. Distinguish between homogametes and heterogametes.



[Watch Video Solution](#)

2. What is test cross? Mention its significance.



[Watch Video Solution](#)

3. Write a note on selection and testing of superior recombinants in plant breeding.



Watch Video Solution

4. What are homologous organ? Mention any two examples.



Watch Video Solution

5. differentiate between active immunity and passive immunity.



Watch Video Solution

6. Draw a neat labelled diagram of stirred tank bioreactor.



Watch Video Solution

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



[Watch Video Solution](#)

8. What are sacred groves? Give an example.



[Watch Video Solution](#)

1. (a) What are hermaphrodites? Mention one example,

(b) Offsprings of asexual reproduction are called clones. Why?



[Watch Video Solution](#)

2. Briefly explain the structure of pollen grains.



[Watch Video Solution](#)

3. Mention the causes and effects of phenylketonuria.



Watch Video Solution

4. List the period, brain capacity and probable food of the Homo erectus stage in the human evolution.



Watch Video Solution

5. Mention the different steps of process of recombinant DNA technology.



Watch Video Solution

6. draw an ideal pyramid of energy and mention the units.

(b) What is an ecological succession?



Watch Video Solution

7. (a) Distinguish between primary productivity and secondary productivity of an ecosystem.

(b) Define a food web.



Watch Video Solution

8. List the harmful effects caused by alcohol drug abuse.



Watch Video Solution

9. describe the outbreeding device that prevents autogamy.



[Watch Video Solution](#)

Part D Section 1

1. Draw a neat labelled diagram of the human sperm.



[Watch Video Solution](#)

2. (a) What is medical termination of pregnancy? Mention the safe period for medical termination of pregnancy.

(b) Write three simple principles to prevent sexually transmitted diseases.



[Watch Video Solution](#)

3. State the law of independent assortment.

Write schematic representation of dihybrid cross.



[Watch Video Solution](#)

4. List out any three important goals of Human Genome project.



Watch Video Solution

5. Briefly explain the steps involved in DNA finger printing?



Watch Video Solution

1. (a) Discuss the MOET technique of animal breeding.

(b) Differentiate between inbreeding and outbreeding.



[Watch Video Solution](#)

2. Briefly describe the role of biological control of pests and diseases.



[Watch Video Solution](#)

3. One of the applications of biotechnology is the production of insect resistant crop plants." Justify the statement with reference to Bt-cotton.



[Watch Video Solution](#)

4. (a) State Gauss competitive exclusion principle".

(b) Mutualism is a method of population interaction. Explain with examples.



[Watch Video Solution](#)

5. Define pollution. With reference to water pollution, explain biochemical oxygen demand, algal bloom, biomagnification and eutrophication.



[Watch Video Solution](#)