



## **BIOLOGY**

## **BOOKS - SUPER COMPANION 5 IN 1**

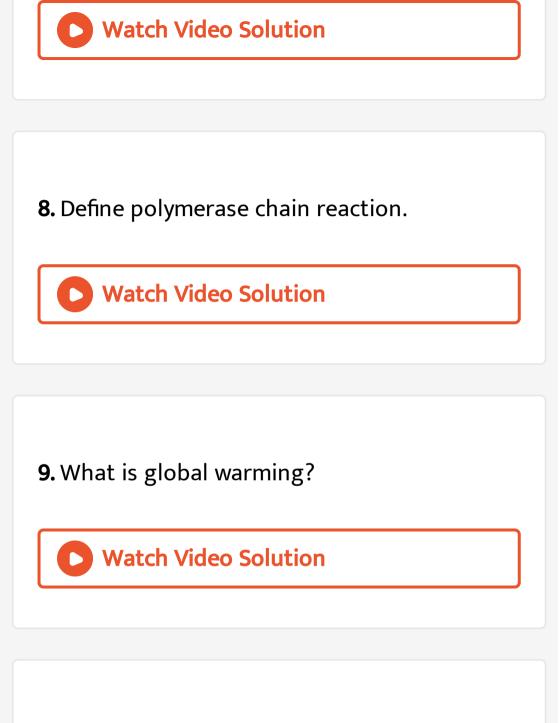
## ANNUAL EXAMINATION QUESTION PAPER MARCH -2014



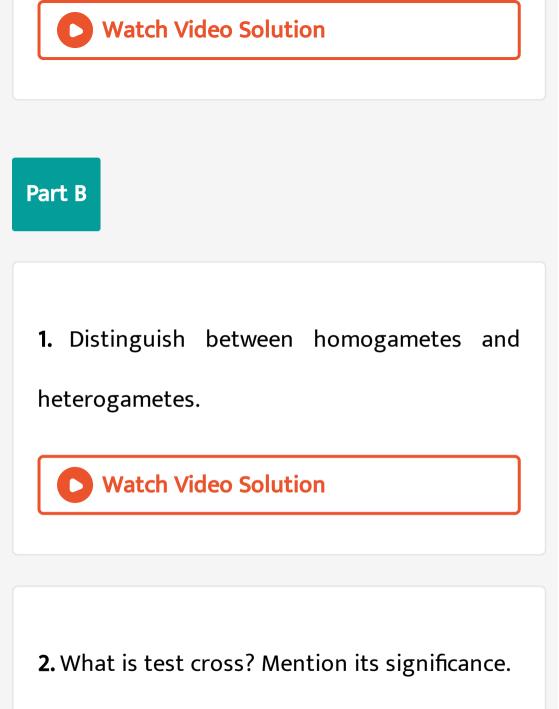
1. What is ovulation?

<b>2.</b> Name the cells that secrete androgens.
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<b>3.</b> what is gene pool?
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<b>4.</b> Name the causative agent of elephantiasis.

5. what is an allergy?
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6. Plant cells are totipotent. Why?
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7. Mention the bacteria responsible for the
large holes seen in Swiss Cheese'.



**10.** Define mortality?



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



4. What are homologous organ? Mention any

two examples.



5. differentiate between active immuntiy and

passive immuntiy.

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6. Draw a neat labelled digram of stirred tank

bioreactor.



7. 'Alien species invasion leads to extinction of

indigenous species' - Justify this statement by

considering two animals as examples.



## 8. What are sacred groves? Give an example.





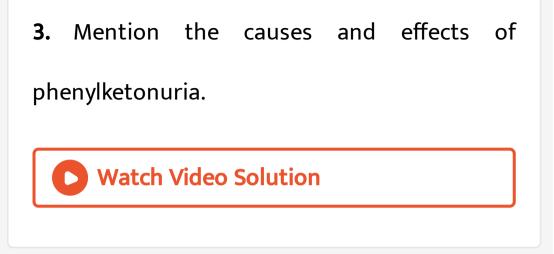
**1.** (a) What are hermaphrodites? Mention one example,

(b) Offsprings of usexual reproduction are

called clones. Why?

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2. Briefly explain the structure of pollen grains.



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

5. Mention the different steps of process of

recombinant DNA technology.

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

(b) What is an ecological succession?

7. (a) Distinguish between primary productivity

and secondary productivity of an ecosystem.

(b) Define a food web.



8. List the harmful effects caused by alcohol

drug abuse.



9. describe the outbreeding device that prevents autogamy.
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Part D Section 1

1. Draw a neat labelled diagram of the human

sperm.

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.

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**3.** State the law of independent assortment. Write schematic representation of dihybrid cross.

**4.** List out any three important goals of

Human Genome project.

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5. Briefly explain the steps involved in DNA

finger printing?

**1.** (a) Discuss thew MOET technique of animal breeding.

(b) Differentiate between inbreeding and outbreeding.

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2. Briefly describe the role of biological control

of pests and diseases.

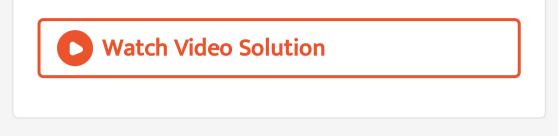
**3.** One of the applications of biotechnology is the production of insect resistant crop plants." Justify the statement with reference to Btcotton.

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

(b) Mutualism is a method of population

interaction. Explain with examples.



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