



## **BIOLOGY**

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

## SUPPLEMENTARY EXAMINATION PAPER JULY -2014

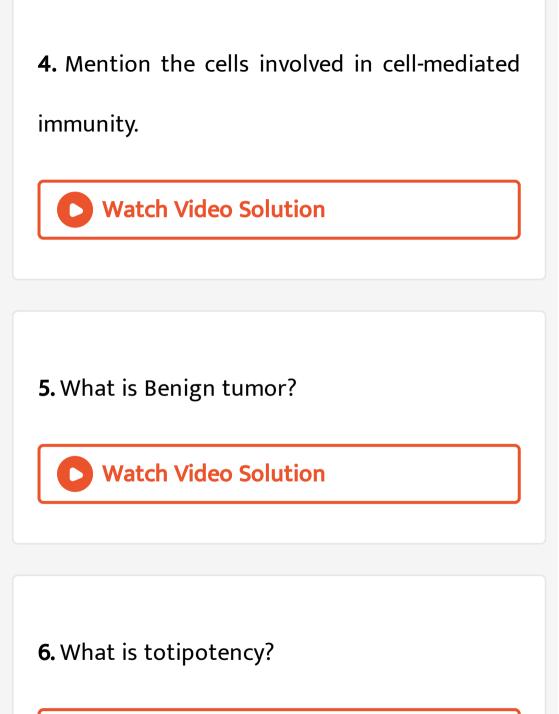


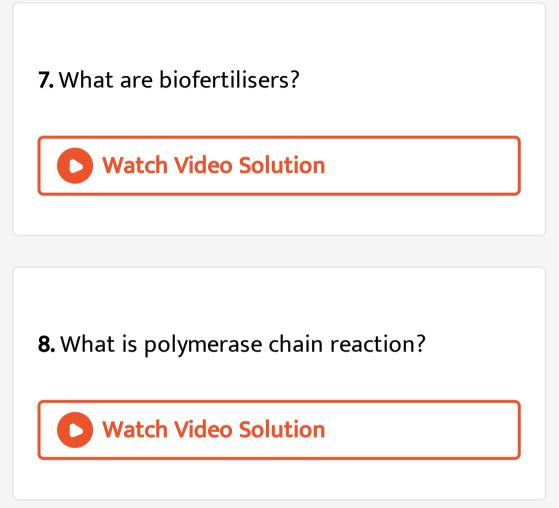
1. What is menopause?

 Name the physical and physiological connection between maternal body and embryo (foetus).

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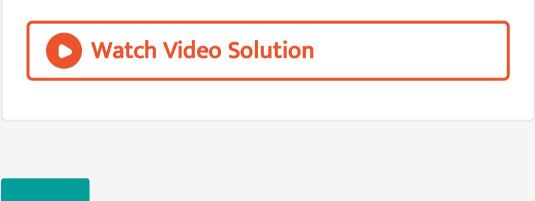
3. What is adaptive radiation?





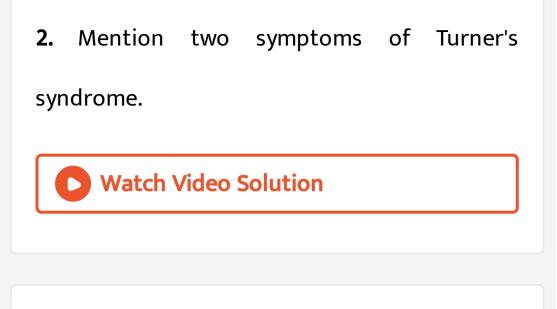
9. Define natality.

## **10.** Give an example for gaseous cycle.





**1.** What are hermaphrodites? Give an example.



**3.** What is a Homologous structure? Give an example.



**4.** Draw a neat labelled diagram of an antibody.

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5. Mention any two measures to improve the

quality and quantity of milk production.

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6. What is commensalism? Give an example.



**7.** List out any two effects of loss of biodiversity.

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8. What are sacred groves? Give an example.



**1.** Mention the units of vegetative propagation in plants.

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2. Draw a neat labelled diagram of longitudinal

section of typical flower.

3. What is male heterogamety? Explain sex

determination in humans.

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4. Draw a labelled diagram of diagrammatic

representation of Miller's experiment.

5. List any three types of Innate Immunity barriers and give an example for each.
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6. Explain any three types major abiotic factors

influencing the life of organisms.



7. Comment : Compressed Natural Gas (CNG) is

better than diesel.

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**8.** What is biomagnification? Name two well studied toxic substances causing this phenomenon.

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Part D Section 1

 What is double fertilization? Describe fertilized embryo sac with a neat labelled diagram.

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2. What is spermatogenesis? Explain the

process of spermatogenesis.

**3.** (a) List three reasons for population explosion.

(b) Name human male and female sterilization

procedures.



4. State the law of independent assortment.

Write schematic representation of dihybrid

cross.



5. Describe Lac operon concept with labelled

sketch.

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6. (a) What is poultry? Mention two important

components of Poultry Farm Management.

(b) Define Inter-specific hybridization?

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Part D Section li

**1.** Summarize major events of DNA finger printing technique.

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2. Explain different stages involved in sewage

treatment.

3. (a) Write diagrammatic representation of

Recombinant DNA technology.

(b) Write a note on down stream processing.



**4.** (a) What is Biopiracy? Explain it with reference to Basmati rice.

(b) What are genetically modified organisms?

Name two Bt-toxin producing plants.



5. Define ecological pyramid? Describe pyramid

of energy flow with a example.