



BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

QUESTION PAPER MARCH-2017



1. What are hermaphrodites?

2. Mention the asexual reproductive structure

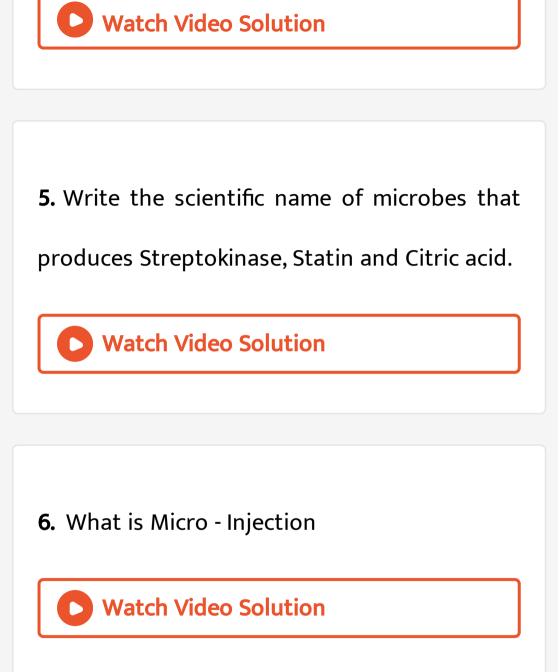
in sponges.

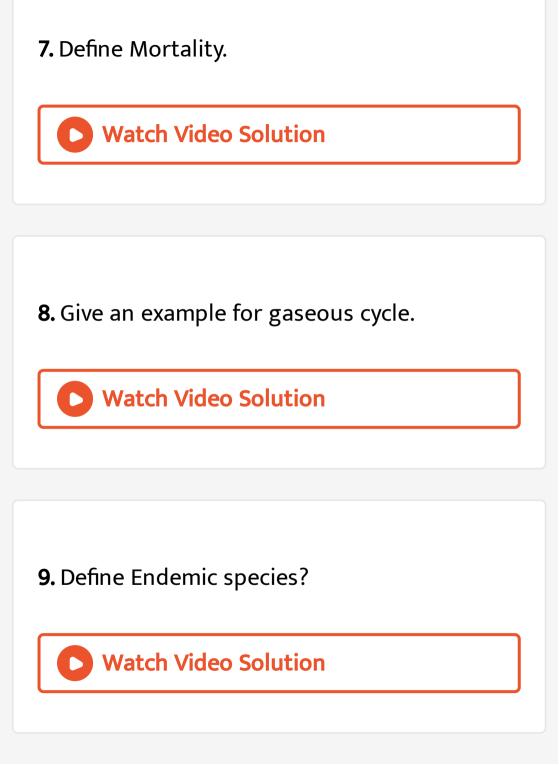


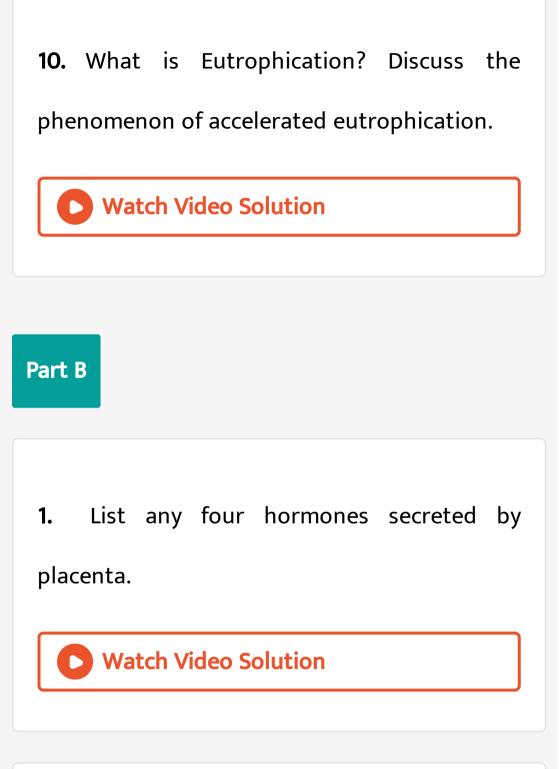
3. What is Euchromatin?

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4. Describe the Semiconservative method of DNA replication.







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. Write four symptoms of Down's Syndrome.

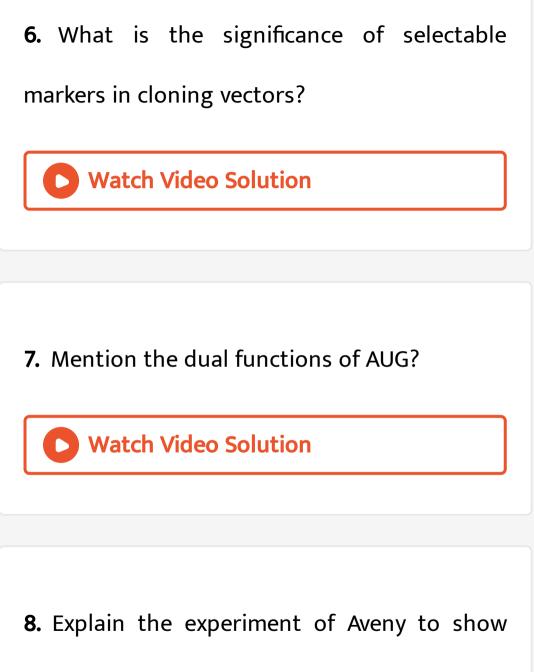
4. What is incomplete dominance? Describe

with one example.



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





DNA acts as genetic material.

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1. Name the vegetative propagules of the following plants. (a) Agave.

(b) Ginger.

(c) Bryophyllum.



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.



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.

6. Write the meaning of following terms : (a)

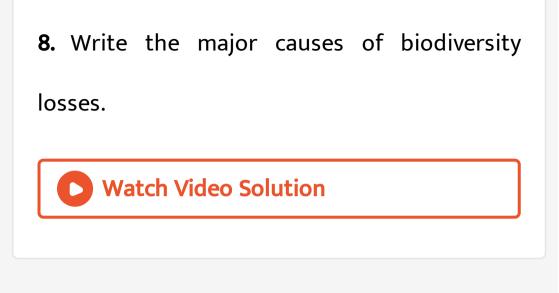
Explantes (b) Totipotency (c) Somaclones.



7. Draw a neat labelled diagram of a simple

stirred tank bioreactor.





Part D Section I

1. Explain the structure of matured pollen grain.

2. Draw a neat labelled diagram of the human

male reproductive system.



3. Explain mendel's experiment to describe inheritance of one gene with reference to height of pea plants.

4. List the salient features of the Human
Genome
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5. Name the diseases caused by following organisms :

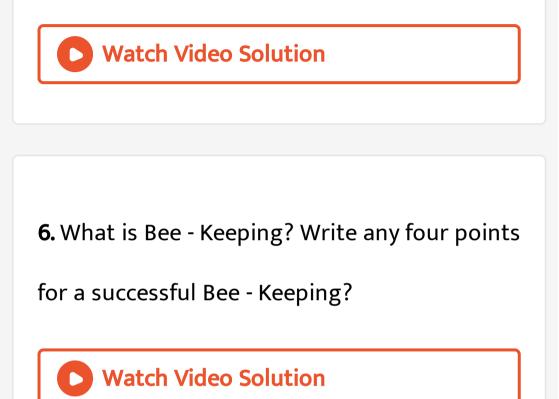
(a) Rhinovirus.

(b) Epidermophyton..

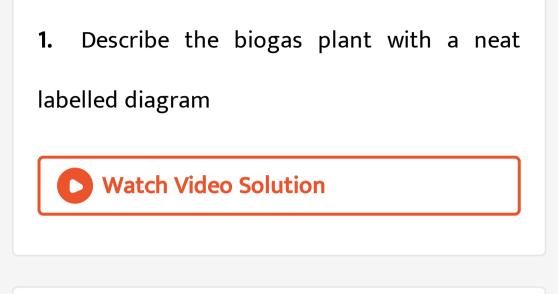
(c) Salmonella typhi

(d) Wuchereria malayi

(e) Plasmodium vivax.



Part D Section li



- **2.** a) What is Biopiracy?
- (b) How ADA deficiency is cured by gene

therapy?

- **3.** (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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4. Explain mutualism with examples.



5. Write a brief account of electrostatic

precipitator with a neat labelled diagram.