



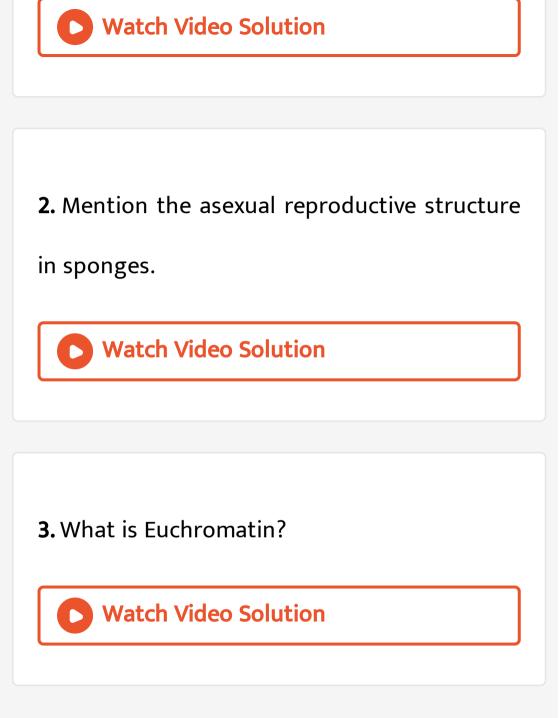
BIOLOGY

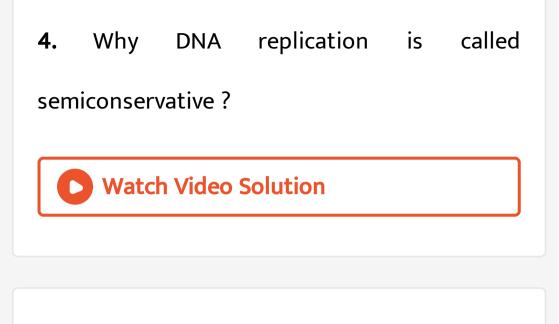
BOOKS - OSWAAL BIOLOGY (KANNADA ENGLISH)

SOLVED PAPER II PUC TOPPER'S ANSWER MARCH - 2017

PART A

1. What are hermaphrodites?

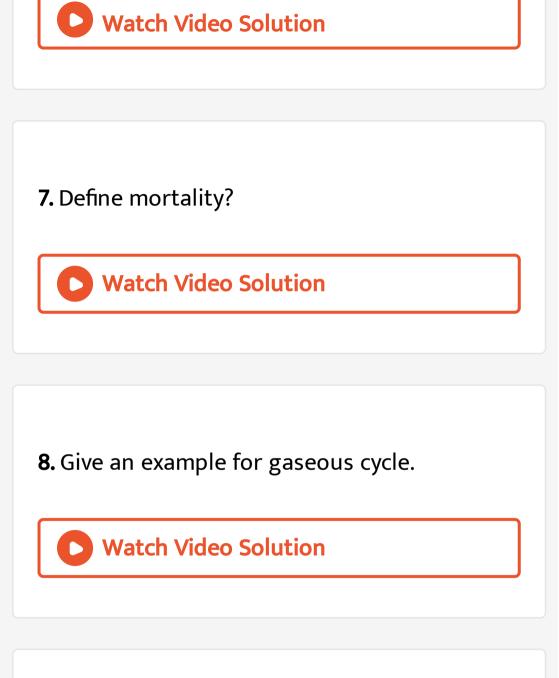




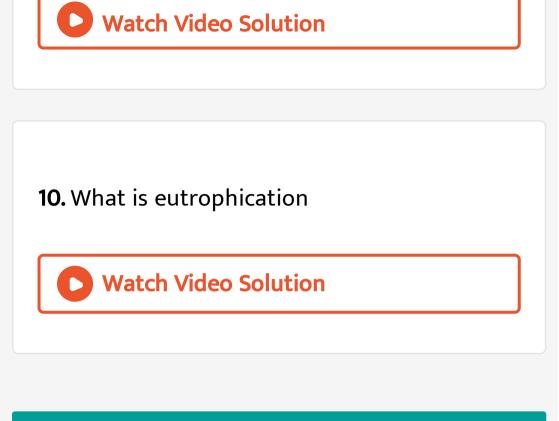
5. Name the microbe used in the production citric acid .



6. What is Micro-Injection



9. Define Endemism.



PART B

1. List the hormones produced by the placenta

during pregancy



2. Write any two simple principle to prevent sexually transmitted disease.

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3. Write four symptoms of Down's Syndrome.

4. What is Incomplete dominance? Give an example.
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5. Write any two factors affecting Hardy -

Weinberg principle.



6. What is the signficance of selectable marker

in cloning vector ?

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7. Codon AUG has dual function - Justify.

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8. What are the criteria of DNA to act as a

genetic material ?

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PART C

1. Name the types of vegetative propagules in

following plants :

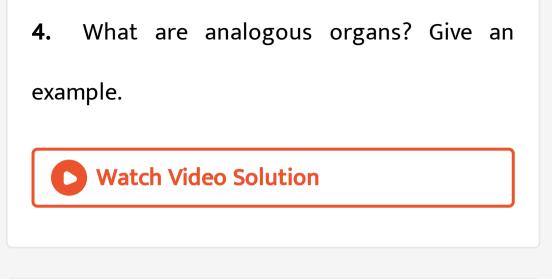
(a) potato (b) ginger (c) bryophyllum

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.





5. Mention the types of carcinogens with an

example for each



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

Explantes (b) Totipotency (c) Somaclones.



7. Draw a net labelled diagram of simple

stirred tank bioreactor.



8. Explain any three cause for biodiversity loss

and write the name of one extinct species

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PART D (SECTION - I)

1. Explain the structure of pollen grains in

Angiosperms.

2. Draw a neat labelled diagram of 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 Human Genome.



- **5.** Name the diseases caused by following organisms :
- a) Rhino virus.
- b) Epidermophyton.
- c) Salmonella typhi.
- d) Wuchereria malayi.
- e) Plasmodium vivax.





6. What is Bee-Keeping? Write any four points

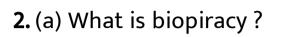
for successful Bee-Keeping?

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PART D (SECTION - II)

1. Explain the components of a biogas plant

with a neat labeled diagram.



(b) How ADA deficiency cured by gene therapy

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3. Represent pyramid of number in grassland

ecosystem.

?



4. Explain mutualism with examples.

