

BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

SAMPLE PAPER - 11 (UNSOLVED)

Bio Botany Part li

1. Draw and label the structure of a mature embryo sac of angiosperms.

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2. What are Multiple Cloning Site (MCS)? Mention its role in r - DNA technology.

3. Lichen is considered as a good example of obligate mutualism. Explain.

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4. Due to lack of rainfall, a pond ecosystem was totally vanished for a particular time period.

Later after a heavy rain, it recovers by succession process. Brief out the

type of succession that had occurred.

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5. What is Dobson unit?



6. Teak wood is ideal for making furnitures. Why?

- 1. Define the following terms (i) Emasculation (ii) Alleles (iii) Phenotype
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2. Compare the features of Southerm blotting and Northern blotting.

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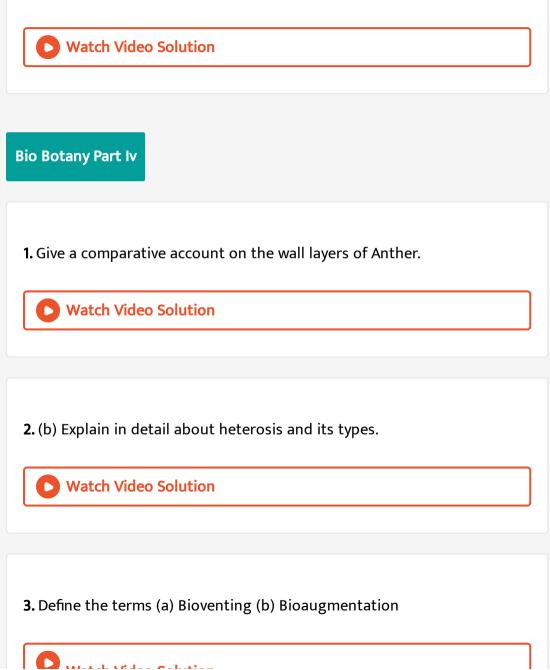
3. Explain ten percent law with an example.



4. Azolla increases the yield of paddy crop - support your answer.

5. Explain the principle on which Siddha medicine is practiced and what

are drug sources for participating siddha.



4. (b) Explain the first five stages of succession that takes place in fresh

water ecosystem.

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Bio Zoology Part I

1. Match the statements.

- A. Regeneration is the growth of injured region.
- B. Regular cutoff of mature proglottids.
- C. Hard, spherical structres containing food-laden archaeocytes.
- D. Division of multinucleate parent into many multinucleate individuals

A.
$$A-iii, B-iv, C-I, D-ii$$

- B. A iv, B iii, C ii, D i
- $\mathsf{C.}\,A-iii,B-ii,C-iv,D-i$
- $\mathsf{D}.\,A-ii,B-I,C-iv,D-iii$

Answer: A



2. Outermost layer covering and protecting memberane of human embryo is

A. Amnion

B. Chorion

C. Allantois

D. Yolk sac

Answer: B

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3. Klinefelters' syndrome is characterized by a karyotype of

A. XYY

B. XO

C. XXX

D. XXY

Answer: D

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4. In sickle cell anaemia, thecodon of β - globin gene is modified.

A. Eighth

B. Seventh

C. Sixth

D. Nineth

Answer: C

5. Theory of recapitulation was proposed by

A. Ernst Von Haeckel

B. Charles Darwin

C. Thomas Huxley

D. Oparin

Answer: A

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6. What is korsakoff syndrome?

A. Paralytic disorder

B. Chronic memory disorder

C. Respiratory disorder

D. Acute liver disorder

Answer: B



7. Which of the following is the fist cloned organism?

A. a) Goat

B.b) Cow

C. c) Sheep

D. d) Pig

Answer: C



8. During exponential phase f growth one of the following changes does

not occur. Identify it _____

A. S - shaped

B. U -shaped

C. J - shaped

D. Linear

Answer: C

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Bio Zoology Part Ii

1. Differentiate between Eurytherms and Stenotherms.

2. Stability of a community depends upon its species diversity' Justify the

statement.

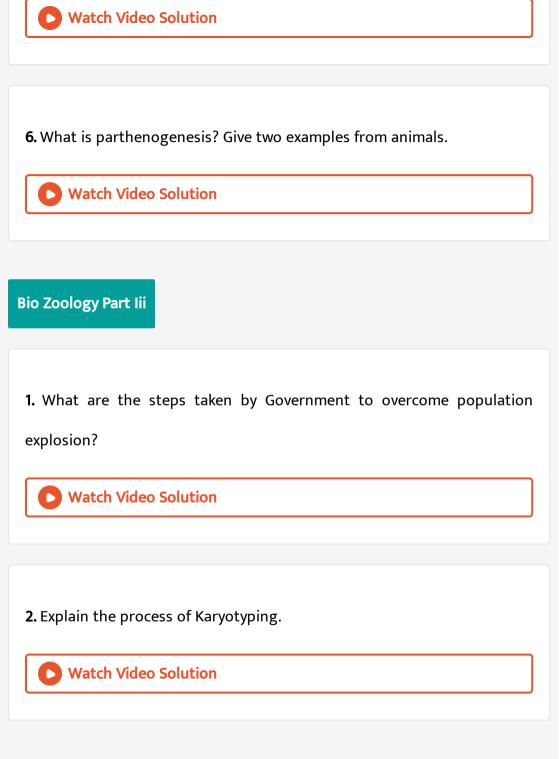
Watch Video Solution 3. The immune system of a person is suppressed,. In ELISA test, the result is positive (i) Name the disease associated with condition. (ii) Why did he loose his immunity? Watch Video Solution

4. What do you mean by charging of tRNA? Name the enzyme involved in

this process.

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5. Give a short note on uterine wall layers.



3. What are the objectives of Human Genome project?
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4. Write a note on the tertiary treatment of Sewage water.
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5. Explain the process of opsonisation.
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Bio Zoology Part Iv
1 How does fossilization occurs in plants?
1. How does fossilization occurs in plants?
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2. (b) Explain the structure and function of mammary glands.

3. Draw a tabular column representing various types of blood group in human beings, their phenotypes, genotypes, antigens and respective antibodies.

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4. (b) Give an account of helminthic disease.

