



BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

SAMPLE PAPER - 11 (UNSOLVED)

Bio Botany Part II

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.

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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?

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

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1. Define the following terms (i) Emasculation (ii) Alleles (iii) Phenotype



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2. Compare the features of Southern blotting and Northern blotting.



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3. Explain ten percent law with an example.



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



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5. Explain the principle on which Siddha medicine is practiced and what are drug sources for participating siddha.

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Bio Botany Part Iv

1. Give a comparative account on the wall layers of Anther.

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2. (b) Explain in detail about heterosis and its types.

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3. Define the terms (a) Bioventing (b) Bioaugmentation

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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 structures containing food-laden archaeocytes.

D. Division of multinucleate parent into many multinucleate individuals

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

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

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

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

Answer: A



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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



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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



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

A. a) Goat

B. b) Cow

C. c) Sheep

D. d) Pig

Answer: C



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8. During exponential phase of 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.



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

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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?

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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.



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6. What is parthenogenesis? Give two examples from animals.



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Bio Zoology Part Iii

1. What are the steps taken by Government to overcome population explosion?



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2. Explain the process of Karyotyping.



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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?

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2. (b) Explain the structure and function of mammary glands.

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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.

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