



BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

SAMPLE PAPER - 11

Bio Botany Part I

1. A mature angiospermic embryo sac is

- A. 8 celled and 8 nucleated
- B. 7 celled and 7 nucleated
- C. 8 celled and 7 nucleated
- D. 7 celled and 8 nucleated

Answer: D



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2. Fruit color in squash is an example for

- A. Recessive epistasis
- B. Dominant epistasis
- C. Complementary genes
- D. Inhibitory genes

Answer: B

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3. Sharbati Sonara is a mutant variety of

- A. Potato
- B. Rice
- C. Wheat

D. Sugarcane

Answer: C



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4. Match the following :

- A. Solidifying agent (i) Sucrose
- B. Cryoprotectant (ii) PEG
- C. Growth hormone (iii) Agar
- D. Fusogen (iv) IAA

A. a) A - iii, B - i, C - iv, D - ii

B. b) A - ii, B - iv, C - iii, D - i

C. c) A - iv, B - ii, C - I, D - iii

D. d) A - i, B - iii, C - ii, D - iv

Answer: A



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5. The plant of this group are adapted to live partly in water and partly above substratum and free from water

- A. Xerophytes
- B. Mesophytes
- C. Hydrophytes
- D. Halophytes

Answer: B



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6. Assertion (A) : In zoological parks, the animals are maintained in their natural habitat.

Reason (R) : Ex - situ conservation refers to protecting species in their natural habitat.

- A. a) A is correct R is incorrect.

B. b)A is incorrect R is correct.

C. c) R explains A.

D. d) Both A and R are incorrect.

Answer: D



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7. The quickest method of plant breeding is

A. Introduction

B. Selection

C. Hybridization.

D. Mutation breeding

Answer: D



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8. Consider the following statements and choose the right option. i) Cereals are members of grass family . Most of the food grains come from monocothledon.

- A. (i) is correct and (ii) is incorrect
- B. Both (i) and (ii) are incorrect
- C. (i) is incorrect and (ii) is correct
- D. Both (i) and (ii) are correct

Answer: D

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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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Bio Botany Part Iii

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.

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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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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 membrane 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 fist 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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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 lose 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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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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