

BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

SAMPLE PAPER - 11

Bio Botany Part I

4 4 1	•			•		
1. A mature	angiosi	permic	embryo	sac is		

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

Answer: D



washiyada a cabutan

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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 Williams
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.

C. c) R explains A. D. d) Both A and R are incorrect. **Answer: D Watch Video Solution** 7. The quickest method of plant breeding is A. Introduction B. Selection C. Hybridization. D. Mutation breeding Answer: D **Watch Video Solution**

B. b)A is incorrect R is correct.

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



Bio Botany Part Ii

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



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.



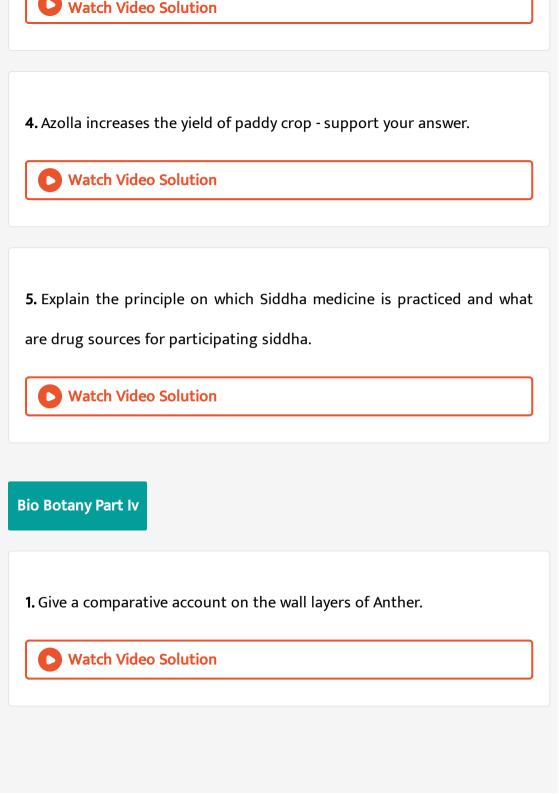
4. Due to lack of rainfall, a pond ecosystem was totally vanished for a particular time period.

Later after a heavy rain, it recovers by succession process. Brief out the type of succession that had occurred.



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.
Match Video Colution
Watch Video Solution
3. Explain ten percent law with an example.
2. Explain tell percent law with all example.



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 structres containing food-laden archaeocytes.
- D. Division of multinucleate parent into many multinucleate individuals

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

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

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

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

Answer: A



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 eta - 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		
C. Thomas Huxley D. Oparin		

Answer: A Watch Video Solution 6. What is korsakoff syndrome? A. Paralytic disorder B. Chronic memory disorder C. Respiratory disorder

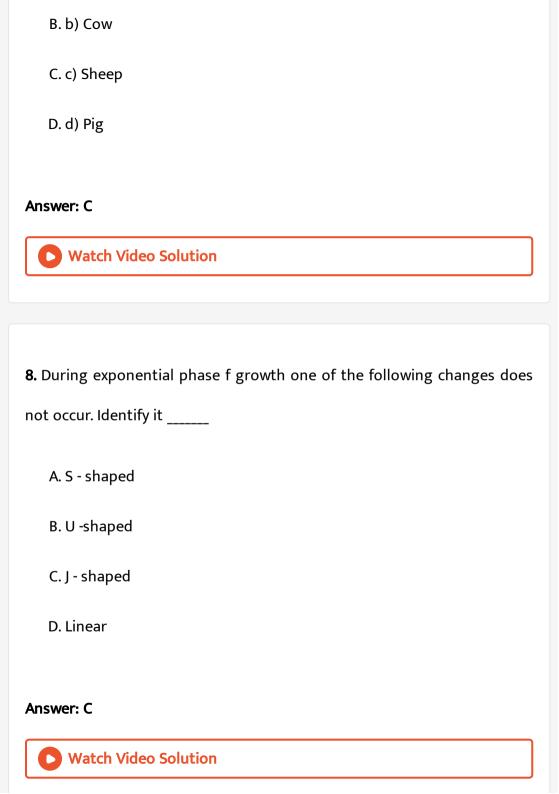
D. Acute liver disorder

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

Answer: B

A. a) Goat



Bio Zoology Part Ii

1. Differentiate between Eurytherms and Stenotherms.



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



- **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?



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.
Watch Video Solution
5. Explain the process of opsonisation.
Watch Video Solution

1. How does tossinzation occurs in plants:
Watch Video Solution

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.



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



