



BIOLOGY

BOOKS - SURA BIOLOGY (TAMIL ENGLISH)

MODEL QUESTION PAPER 02

Mcq Part 1

1. Identify the correctly matched pair

A. Tuber - Allium Cepa

B. Sucker - Pistia

C. Rhizome - Musa

D. Stolon - Zingiber

Answer: C



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2. Select the period for Mendel's hybridization experiments

A. 1856-1863

B. 1850-1870

C. 1857-1869

D. 1870-1877

Answer: A



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3. Consider the following statements :

i. Recombinant DNA technology is popularly known as genetic engineering is a stream of

biotechnology which deals with the manipulation of genetic materials by man invitro

ii. pBR322 is the first artificial cloning vector developed in 1977 by Boliver and Rodriguez from E.coli plasmid.

iii. Restriction enzymes belong to a class of enzymes called nucleases . Choose that correct option regarding above statements

A. I & II

B. I&III

C. II&III

D. I,II&III

Answer: B



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4. Read the given statements and select the correct option.

Statement A : Cattle do not graze on weeds of Calotropis.

Statement B : Calotropis have thorns and spines, as defense against herbivores.

- A. Both statements A and B are incorrect
- B. Statement A is correct but statement B is incorrect.
- C. Both statements A and B are correct but statement B is not the correct explanation of statement A
- D. Both statements A and B are correct and statement B is the correct explanation of statement A.

Answer: B



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5. Match the following A Carbon cycle

A. i iii ii iv

B. ii iii iv i

C. ii i iv iii

D. iii ii i iv

Answer: C



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6. Find the wrongly matched pair.

(a) Endemism - Species confined to a region and not found anywhere else.

(b) Hotspots - Western ghats

(c) Ex-situ Conservation - Zoological parks

(d) Sacred groves - Saintri hills of Rajasthan

(e) Alien sp. of India - Water hyacinth



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7. While studying the history of domestication of various cultivated plants were recognized earlier.

- A. Centres of origin
- B. Centres of domestication
- C. Centres of hybrid
- D. Centres of variation

Answer: A



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8. Which one of the following matches is correct?

A. Palmyra - Native of Brazil

B. Saccharun - Abundant in Kanyakumari

C. Steveocide - Natural sweetener

D. Palmyra sap - Fermented to give ethanol

Answer: C



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Very Short Answer Type Questions

1. Name the seven contrasting traits of Mendel.



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2. What is a codon?



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3. Write the advantages of herbicide tolerant crops.



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4. 'Green algae are not likely to be found in the deepest strata of the ocean'. Give at least one reason.



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5. Construct the food chain with the following data.

Hawk, plants, frog, snake, grasshopper.



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6. How do sacred groves help in the conservation of biodiversity?



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1. Find the parts of the embryo sac.



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2. What are vectors?



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3. Which one gas is most abundant out of the four commonest greenhouse gases? Discuss

the effect of this gas on the growth of plants?



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4. Explain the best suited type of breeding followed by plant breeders at present?



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5. Draw the flow chart of general steps in patenting.



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Long Answer Type Questions

1. With a suitable diagram explain the structure of an ovule.



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2. Differentiate incomplete dominance and codominance.



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3. What is soil profile ?



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4. Which TSM is widely practiced and culturally accepted in Tamil Nadu ? - explain .



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