



# BIOLOGY

## BOOKS - SURA BIOLOGY (TAMIL ENGLISH)

### MODEL QUESTION PAPER 03

#### Mcq Part 1

1. Choose the incorrect statement : "polygrnic inheritance"

A. occurs when one characteristic is controlled by two or more genes.

B. group of genes determine a characteristic of an organism .

C. Gene interaction with two alleles.

D. It was demonstrated by H.Nilsson-Ehle.

**Answer: C**



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## Mcq Part 2

1. Assertion (A) : Gamma rays are generally used to induce mutation in wheat varieties.

Reason (R) : Because they carry lower energy to non-ionize electrons from atom

A. A is correct . R is correct explanation of A

B. A is correct .R is not correct explanation of A

C. A is correct .R is wrong explanation of A

D. A and R are wrong

**Answer: C**



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## **Mcq Part 3**

**1. Match the following:**

A. a b c d

B. c d b a

C. a c b d

D. c d a b

**Answer: D**



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## Mcq Part 4

**1. Choose the correct pair :**

A. cybrid - Fusion of cytoplasm

B. Agar - Differentiation

C. Callus -Marine algae

D. Rheumatic - Digitalis purpuria

**Answer: A**



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## Mcq Part 5

1. choose the odd-man out .

A. vallisneria

B. orchid

C. Typha

D. Hydrilla

**Answer: B**



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## Mcq Part 6

1. Which one is in descending order of a food chain?

A. Producers right arrow Secondary right  
arrow primary consumers right arrow  
Tertiary consumers

B. Tertiary consumers right arrow primary  
consumers right arrow secondary  
consumers right arrow producers

C. Tertiary consu,ers right arrow secondary  
consumers right arrow primary  
consumers right arrow producers



D. Tertiary consumers right arrow

producers right arrow primary

consumers right arrow secondary

consumers

**Answer: C**



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**Mcq Part 7**

1. (I) The gases that capture heat are called Green House Gases.

(II) Burning fossil fuels, releases  $CO_2$  and  $CH_4$

(III) Clouds and Dust particles can also produce Green House effect.

(IV) Rise in global temperature which causes sea levels to rise as polar ice caps

A. I,II and IV only

B. I only

C. I,II,III and IV

D. II,III and IV only

**Answer: C**



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## Mcq Part 8

1. Which of the following is incorrectly paired?

A. Wheat - Himgiri

B. Milch breed - Sahiwal

C. Rice -Ratna

D. Pusa Komal - Brassica

**Answer: D**



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## Very Short Answer Type Questions

1. What is layering ?



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2. How dose Drosophila show complete linkage?



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3. List any two adaptive features evolved in parasites enabling them to live successfully on their host.



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4. Productivity of profundal zone will be low

Why?



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5. Differentiate primary introduction from secondary introduction.



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6. If a person drinks a cup of coffee daily it will help him for his health . Is this correct ? If it is correct, list out the benefits .



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## Short Answer Type Questions

1. Distinguish mound layering and air layering.



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2. What is gene mapping? Write its uses.



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3. Write the protocol for glyphosate tolerant potato plant.



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4. Write the economic importance of rice.



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5. Draw a sketch to show role of IPR in India.



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## Long Answer Type Questions

1. Is there any possibility to transfer a suitable desirable gene to host plant without vector?

Justify your answer.



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2. Draw the flow chart of plant regeneration pathway in tissue culture.



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3. Compare primary and secondary succession.



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4. How are microbial inoculants used to increase the soil fertility?



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