ו–ט ן	0–Y

Roll No....

Total No. of Questions: 16]

[Total No. of Printed Pages: 4

12thARM(H/Z)JKUTL2024-25

610-Y

BOTANY

(Biology)

Time: 11/2 Hours]

[Maximum Marks: 35

SECTION-A

(OBJECTIVE TYPE QUESTIONS)

1 each

- 1. Which one is not decomposers ?
 - (A) Fungi
 - (B) Viruses
 - (C) Bacteria
 - (D) Flagellates especially abundant in the bottom of pond

12thARM(H/Z)JKUTL2024-25—610-Y

Turn Over

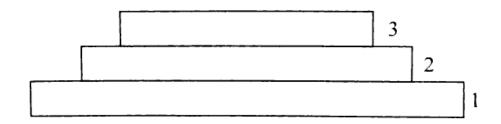
D-10-Y

	and hy
2.	Large holes in Swiss Cheese are produced by:
	(A) A machine
	(B) A bacterium that produces methane gas
	(C) A bacterium that produces carbon dioxide gas
	(D) A fungus that releases a lot of gases during its metabolic activities
3.	A gene of operon which forms the repressor protein is:
	(A) Operator
	(B) Promotor
	(C) Regulator
	(D) Structural
4.	The technology of biogas production in India was:
	(A) Imported from Japan
	(B) Imported from Denmark
	(C) Imported from USA
	(D) Developed in India due to the efforts of IARI and KVIC
5.	Define Humification.
	thARM(H/Z)JKUTL2024-25—610-Y — 10-Y

SECTION-B

(VERY SHORT ANSWER TYPE QUESTIONS) 2 each

- **6.** What is a Fermentor?
- A mature embryo sac in a flowering plant may possess 7-cells, but
 8-nuclei. Explain it with the diagram only. https://www.jkboseonline.com
- 8. Label the three different tiers in the given age pyramid. Mention the kind of population growth described by the pyramid.



- 9. Define:
 - (a) Pleiotropy
 - (b) Test cross
- 10. Differentiate between integument and testa.

12thARM(H/Z)JKUTL2024-25—610-Y

Turn Over

SECTION-C

(SHORT ANSWER TYPE QUESTIONS)

3 each

- 11. Describe the development of monocut embryo.
- 12. Write a brief note on the importance of species diversity.
- 13. Describe the kind of food that would have lactic acid bacteria.

 Mention their useful applications.
- 14. What is Gene Expression? Where would it be exerted in Eukaryotes?
- 15. Differentiate between Dominance, Co-dominance and Incomplete dominance.

SECTION-D

(LONG ANSWER TYPE QUESTIONS)

5,

16: What is Primary Productivity? Give a brief description of factors that affect primary productivity.

Or

Define Population Interactions. Describe four types of negative interactions with the help of examples.

12thARM(H/Z)JKUTL2024-25-610-Y