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Total No. of Questions: 16]

[Total No. of Printed Pages: 4

12th ARM(SZ)JKUT2024

1110-X

BOTANY

(Biology)

Time: 11/2 Hours] [Maximum Marks: 35

SECTION-A

1 each

- 1. A diploid organism is heterozygous for 3 loci; how many types of gametes can be produced?
 - (A) 3
 - (B) 6
 - (C) 8
 - (D) 12

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2.	Find	the	odd	one	;
A.	1 1114	1110	-		

- (A) Cephalosporium acremonium (B) Acetobacter aceti
 (C) Clostridin Kashmir Student Aleris

 - (D) Lactobacillus

Nt Alais Which one is not a biofertilizer ?

- (D) Azolla

 4. Which is an in-situ methowd of conservation?

 (A) Cryopreservation

 (B) Biosphere Reserves

 (C) Zoological Parks

 (D) Wildlife Safari Part

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 B-12

C

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- 5. The second trophic level in a lake is :
 - (A) Phytoplankton
 - (B) Zooplankton
 - (C) Benthos
 - (D) Fishes

SECTION-B

2 each

- 6. Define Apomixis. Give its importance.
- 7. What is Double fertilization ?
- 8. Write a note on various types of processes that occur simultaneously during decomposition of detritus.
- 9. What is the key difference between Primary and Secondary sewage treatment?
- 10. Draw schematic structure of a Transcription unit.

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Turn Over

Kashmir Student SECTION-C

Shriir Student Alei ics. Aleris 3 each

- 11. What are Multiple Alleles ? Give their characteristics.
- What is Tissue Culture ? Give its applications.
- 13. Flowers have evolved various strategies to prevent self pollination. Write a note on those strategies.
- What are Hotspots? Give an example and also write criteria for hotspots.
- What are properties of genetic material?

SECTION-D

Describe the attributes that populations possess but not individuals.

Define Ecological Pyramid. Name the three types of ecological pyramids. What information is conveyed by each pyramid regarding structure, functions and energy in the ecosystem ? . Krair Student Aler ir chident Alerts

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