

Roll No.

Z-10-A

Total No. of Questions : 16]

[Total No. of Printed Pages : 4

11th ARF(SZ)JKUT2024-25

210-A

BOTANY

(BIOLOGY)

Time : 1½ Hours]

[Maximum Marks : 35

Section-A

1 each

(Very-Very Short Answer Type Questions)

1. Define taxa.
2. Root hairs originate from :

(A) Meristematic zone

(B) Elongation zone

(C) Maturation zone

(D) Both (A) and (B)

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3. Which of the following is not the part of Ground tissue system ?
- (A) Epidermis
 - (B) Cortex
 - (C) Endodermis
 - (D) Pericycle
4. Which of the following is a mobile electron carrier ?
- (A) Cytochrome 'a'
 - (B) Cytochrome 'a₃'
 - (C) Cytochrome 'c'
 - (D) Cytochrome 'b'
5. A hormone which helps to initiate rooting in stem cuttings is :
- (A) Auxins
 - (B) Gibberellins
 - (C) Cytokinins
 - (D) Ethylene

Section-B

2 each

(Very Short Answer Type Questions)

6. Write down two important features of Lichens.
7. How is anisogamous reproduction different from oogamous reproduction ?
8. What are the different components of stomatal apparatus ?
9. Give two differences between radial and conjoint vascular bundles.
10. Define respiratory quotient (RQ). What is the RQ of carbohydrates ?

Section-C

3 each

(Short Answer Type Questions)

11. Write a note on the nutrition of bacteria with emphasis on saprotrophic nutrition. <https://www.jkboseonline.com>
12. Describe the different steps of sexual reproduction in fungi.
13. Discuss the different types of asexual spores found in algae.
14. Write a short note on the structure of a dicot seed.
15. Give an account of the differences between arithmetic and geometric growth in plants.

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Section-D

(Long Answer Type Questions)

Give the diagrammatic representation of Hatch and Slack cycle.

Or

Discuss in detail the different steps of Calvin Cycle with the help of schematic representation.