

Total No. of Questions : 16]

[Total No. of Printed Pages : 4

11th ARF(SZ)JKUT2024-25**210-C****BOTANY****(BIOLOGY)**

Time : 1½ Hours]

[Maximum Marks : 35

Section-A

1 each

(Very-Very Short Answer Type Questions)

1. Define species.
2. In opposite phyllotaxy :
 - (A) Two leaves arise at each node
 - (B) One leaf arises at each node
 - (C) More than two leaves arise at each node
 - (D) One or two leaves arise at each node

11th ARF(SZ)JKUT2024-25**210-C**

Turn Over

Z-10-C

Section-B

(Very Short Answer Type Questions)

6. Write down *two* salient features of viruses.
7. How is artificial classification different from natural classification ?
8. Write down *two* main differences in the anatomy of monocot and dicot roots.
9. Give *two* differences between radial and conjoint vascular bundles ?
10. Define respiratory quotient (RQ). What is the RQ of carbohydrates ?

Section-C

3

(Short Answer Type Questions)

11. Write a note on the nutrition of bacteria with emphasis on saprotrophic nutrition.
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.

Section-D

(Long Answer Type Questions)

16. Give the diagrammatic representation of Hatch and Slack cycle.

Or

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