

Roll No.

Z-10-Z

Total No. of Questions : 16]

[Total No. of Printed Pages : 4

11th ARM(SZ)JKUT2024

1210-Z

BOTANY

(BIOLOGY)

Time : 1.30 Hours]

[Maximum Marks : 35

Section-A

1 each

Very Very Short Answer Type Questions :

1. Conjoint and closed vascular bundles with no phloem parenchyma may be observed in :

- (A) Monocot Stem
(B) Monocot Root
(C) Dicot Stem
(D) Dicot Root

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Turn Over

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2. Binomial nomenclature means :

- (A) One name given by two scientists
- ~~(B)~~ One name comprising a generic and a specific epithet
- (C) Two names, one latinised, other of a person
- (D) Two names, one scientific other local

3. Non-albuminous seed is produced in :

- (A) Maize
- (B) Castor
- (C) Wheat
- ~~(D)~~ Pea

4. The largest herbarium in India is located in :

- (A) National Botanical Garden, Lucknow
- (B) Lloyd Botanical Garden, Darjeeling
- ~~(C)~~ Indian Botanical Garden, Sibpur, Howrah
- (D) Forest Research Institute, Dehradun

5. The net gain of ATP during glycolysis is :

- (A) Six
- (B) Eight
- (C) Two
- ~~(D)~~ Four

Section-B

2 each

Very Short Answer Type Questions to be answered in 20 to 30 words :

6. Define Viruses. What are Viroids ?
7. Write general characteristics of Roots.
8. Write distinct characters of Fungi.
9. Give two differences between Vascular Bundles of Monocot and Dicot Stems.
10. Name three basic tissue systems in the Flowering Plants.

Section-C

3 each

Short Answer Type Questions to be answered in 100 to 150 words :

11. How is five-kingdom classification advantageous over two-kingdom classification ?
12. Why bryophytes are called amphibians of plant kingdom ?
13. Explain in 2-3 lines each of the following terms :
 - (i) Differentiation
 - (ii) De-differentiation
 - (iii) Re-differentiation

(4)

14. Give an account of distinguishing features of Family Solanaceae.

15. Briefly describe conditions necessary for growth.

Section-D

5 each

Long Answer Type Questions to be answered in 150 to 200 words :

16. What are the important events and end products of Light Reaction ?

Or

Describe Chemiosmotic Production of ATP.

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