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Reg. No.

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V Semester B.Sc. Degree Examination, March - 2021

BOTANY

Taxonomy and Economic Botany

(CBCS Fresher+Repeaters)(2016-17 and Onwards)

Paper : V



Time : 3 Hours

Maximum Marks : 70

Instructions to Candidates:

- 1) Answer all Parts.
- 2) Draw diagrams wherever necessary.

PART - A

- A.** Explain / Define any **Ten** of the following in two or three sentences. **(10×2=20)**
1. What is Flora? Give an example.
 2. What is Chemotaxonomy?
 3. Define species concept.
 4. What is Binomial nomenclature. Give an example.
 5. What is Resupination?
 6. Define Pseudostem. Give an example.
 7. What is Monadelphous condition? Give an example.
 8. Define Etaerio of berries. Give an example.
 9. What are inter petiolar stipules? Give an example.
 10. Define Synandrous stamens. Give an example.
 11. Give the economic importance of clove and name the part used.
 12. Give the botanical name of Ashwagandha and Asafoetida.

PART - B

- B.** Write critical notes on **any Four** of the following. **(4×5=20)**
13. Effective and Valid Publication.
 14. Numerical taxonomy.

[P.T.O.]



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15. Salient features of Brassicaceae.
16. Pome and Cremocarp.
17. Salient features of Lamiaceae.
18. Head or Capitulum.

PART - C

C. Give a comprehensive account on any **Three** of the following. **(3×10=30)**

19. Bentham and Hooker system of classification.
 20. Herbarium techniques.
 21. Give a comparative account of Rutaceae and Euphorbiaceae.
 22. Comment on
 - a) Sugars
 - b) Musa flower.
 23. Enumerate the general characters of Asclepiadaceae.
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V Semester B.Sc. Degree Examination, March - 2021

BOTANY

Molecular Biology, Genetic Engineering, Biotechnology And Plant Physiology
(CBCS Scheme)(Fresher+Repeaters)

Paper : VI



Time : 3 Hours

Maximum Marks : 70

Instructions to Candidates:

- 1) Answer **all** parts.
- 2) Draw **diagrams** and write examples wherever necessary.

PART - A**A. Explain / Define 'any Ten' of the following in two or three sentences. (10×2=20)**

1. What are Okazaki fragments?
2. Mention the components of Lac operon concept.
3. What is Semi permeable membrane? Give an example.
4. Differentiate Plasmolysis and deplasmolysis.
5. Why transpiration is a necessary evil?
6. What are vectors? Give an example.
7. Differentiate Guttation and transpiration.
8. What is Root Pressure theory?
9. Mention any 3 factors which influence absorption of water by roots.
10. Draw a neat labelled diagram of stomatal apparatus.
11. Mention the three importance of water to plants.
12. What is Source and Sink concept?

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PART - B

B. Write critical notes on 'any **Four**' of the following. **(4×5=20)**

13. Passive absorption of water.
14. Clover leaf model of t RNA
15. Role of Microbes in Agriculture.
16. Properties of Genetic code.
17. Munch mass flow hypothesis.
18. Steps involved in production of ethanol.

PART - C

C. Give a comprehensive account of "any **three**" of the following. **(3×10=30)**

19. Production of Penicillin.
 20. Watson and crick model of DNA.
 21. Applications of Genetic engineering technology in Agriculture.
 22. a) Trace elements.
b) Trans cellular hypothesis.
 23. Physical theories of Ascent of sap.
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