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Reg. No.

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V Semester B.Sc. Degree Examination, March/April - 2023

**BOTANY**

**Taxonomy and Economic Botany**  
**(CBCS Scheme Freshers 2020)**

**Paper : V**



**Time : 3 Hours**

**Maximum Marks : 70**

**Instructions to Candidates:**

1. Answer All Parts.
2. Draw diagrams wherever necessary.

**PART - A**

**I. Define/Explain any Ten of the following in two or three Sentences. (10×2=20)**

1. Define species.
2. What are adnate Stipules? Give example.
3. What is Valid publication?
4. What is capitulum? Give example.
5. Write Botanical names of Coffee and Cotton.
6. What are microgreens? Mention its use.
7. What is Gootee?
8. Differentiate Taxon from OTU.
9. Mention any two uses of Herbarium.
10. What is Flora? Give example.
11. Mention any two medicinal uses of Pomegranate.
12. What is torous? Give example.

**[P.T.O.]**



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**PART - B**

**II. Write critical notes on any Four of the following.**

**(4×5=20)**

13. Binomial nomenclature.
14. Lalbaugh.
15. Ethnobotany.
16. Salient features of Apiaceae.
17. Greenhouse
18. Androecium in Cucurbitaceae.

**PART - C**

**III. Give a comprehensive account on any Three of the following.**

**(3×10=30)**

19. Explain the outlines of Bentham and Hooker's system of classification, and add a note on its merits and demerits.
  20. Give an account on spices yielding plants.
  21. Describe the characters of family Brassicaceae.
  22. Give a comparative account of families Poaceae and Orchidaceae.
  23. Write notes on:
    - a) Pulses
    - b) Cytotaxonomy
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V Semester B.Sc. Degree Examination, March/April - 2023

**BOTANY**

Molecular Biology, Genetic Engineering Biotechnology and Plant physiology

(CBCS Scheme Freshers 2020)

Paper : VI

Time : 3 Hours

Maximum Marks : 70

**Instructions to Candidates:**

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

**PART - A**

Explain/Define any TEN of the following in two or three sentences. (10×2=20)

1. What is genetic code?
2. Mention two uses of microbes in agriculture.
3. Define Biotechnology
4. Differentiate symplast from apoplast.
5. What is meant by Translocation of solutes?
6. Differentiate wall pressure from turgor pressure.
7. Mention the role of t-RNA and ribosomes in protein synthesis.
8. What is the central dogma of molecular biology?
9. Define imbibition.
10. What is heat stress?
11. List two points about the importance of water in plants.
12. What are nucleic acids? Give examples.

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**PART - B**

**Write critical notes on any Four of the following.**

**(4×5=20)**

13. Transcription
14. Lac operon
15. Vectors
16. Permeability of membranes
17. Mass flow hypothesis
18. Significance of transpiration

**PART - C**

**Give a comprehensive account of any Three of the following.**

**(3×10=30)**

19. Describe the process of DNA replication.
  20. Explain the mechanism of absorption of water.
  21. Define mineral nutrition. Explain two deficiency symptoms for any four micronutrients.
  22. Explain the mechanism of opening and closing of stomata.
  23. Explain the production of ethanol.
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