



11425

B.Sc. IV Semester Degree Examination, April/May- 2019

BOTANY

Taxonomy of Angiosperms, Economic Botany,

Plant Genetic Resource Management

PAPER - IV

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

- 1) Answer all the questions from **PART - I**.
- 2) Answer any **TEN** questions from **PART - II**.
- 3) Labelled diagrams will enhance value of answer.

PART - I

I. Answer the following questions.

(8×2=16)

1. Define genus and Species.
2. Explain the gynoeceium of Lamiaceae.
3. What is gene Bank?
4. Write the family name, B.N, parts used and uses of Madhunashini.
5. What is ex - situ Conservation?
6. What are primitive angiosperms? Give example.
7. What are National parks? Mention any two National parks of India.
8. Write any two objectives of B.S.I .

PART - II

II. Answer any **FOUR** of the following questions.

(4×4=16)

9. Write the distinguish Characters of Sub - Family papilionaceae.
10. Write the principle of International Code of Botanical Nomenclature.
11. Write the advantages and disadvantages of Engler and Prantl system of classification.

[P.T.O.]



12. Write the family name, B.N, parts used and uses of following plants.
 - a) Ashwaghandha
 - b) Sarpaghandha
 - c) Vinca
 - d) Ocimum.
13. Write about taxonomic characters of Angiosperms.
14. Mention the family name, B.N, parts used and uses of following plants.
 - a) Bhang
 - b) Opium.

PART - III

III. Answer any **SIX** of the following questions.

(6×8=48)

15. Write about Biosphere Reserves.
 16. Mention the family name, B.N, parts used and uses of following plants.
 - a) Teak
 - b) Rose wood
 - c) Babul
 17. Write the out line classification system of angiosperms according to Bentham and Hooker.
 18. Assign the following plants, to their respective families with B.N and uses.
 - a) Chilli
 - b) Green gram
 - c) Water melon
 - d) Coriander
 19. Write the general characters of family Euphorbiaceae giving 3 - examples with B.N and uses.
 20. Write the general characters of onion family giving 3 - examples with B. N and uses.
 21. Enumerate the characters of family Rubiaceae giving 3 - examples with B.N and uses.
 22. Write the salient features of family malvaceae giving 3 - examples with B.N and uses.
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Paper - IV

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Instructions to Candidates:

- 1) Answer **all** questions from Part - 1
- 2) Answer any **Four** questions from Part - II
- 3) Labelled diagrams will enhance value of Answer.

PART - I

I. Answer the following questions.

(8×2=16)

1. What is Artificial system of classification? Who proposed it?
2. Expand CGAIR and NBPGR.
3. What is cryopreservation?
4. Mention the Family, Botanical name parts used and uses of Bitter gouard.
5. What is Ex-situ conservation?
6. Explain the Androecium of Malvaceae.
7. What is papilionaceous corolla? Mention its family.
8. Define Binomial nomenclature. Who proposed it.

PART - II

II. Answer any **FOUR** of the following questions.

(4×4=16)

9. Write the merits and demerits of Bentham and Hookers classification.
10. Write the ICBN rules & principles.

[P.T.O]



11. What are Biosphere reserves? Explain.
12. Write the distinguish characters of family Acanthaceae.
13. What are Narcotic plants? Give examples with Botanical Name, family, parts used and uses.
14. What are pulses? Give any two examples with family name, Botanical name, parts used & uses.

III. Answer any **six** of the following questions:

(6×8=48)

15. Write the Botanical characters of Umbeliferae giving 3 - examples with B.N. and uses.
16. Write the general characters of family lamiaceae giving 3 - examples with Botanical name & uses.
17. Write the taxonomical characters of caster family (Euphorbiaceae) giving 3 - examples with B.N. and uses.
18. Write the taxonomical character of family graminae giving 3 - examples with B.N. and uses.
19. Write the Aims & objectives of BSI.
20. What are Natinal Parks? Explain National Parks of India.
21. Assign the following plants to their respects families with B.N. & uses.
 1. Mustered
 2. Chilli
 3. Watermelon
 4. Chicory.
22. What are ? Give any four examples with family name, B.N. parts used & uses.