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**M.Sc.(Second Semester)
EXAMINATION, May-June, 2022
BOTANY
Paper First
(Taxonomy and Diversity of Plant)**

*Time : Three Hours]**[Maximum Marks: 80***Note: Attempt all sections as directed.****Section - A****(Objective/Multiple Choice of Questions)****Note: Attempt all questions.****Choose the correct answer:**

1. The term Taxonomy was first proposed by:-
- (A) Theophrastus
 - (B) De - Candole
 - (C) Linnaeus
 - (D) Aristotle

2. Phylogenetic classification is one which is based on-
- (A) Overall similarities
 - (B) Utilitarian system
 - (C) Habits of plants
 - (D) Common evolutionary descents
3. Classification given by Bentham & Hooker is:-
- (A) Artificial
 - (B) Natural
 - (C) Phylogenetic
 - (D) Numerical
4. System of classification used by Linnaeus was-
- (A) Natural system
 - (B) Artificial system
 - (C) Phylogenetic system
 - (D) Asexual
5. Basic unit or smallest taxon of taxonomy classification is:-
- (A) Species
 - (B) Kingdom
 - (C) Family
 - (D) Variety

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6. Taxon is
- (A) A group of related families
 - (B) A group of related species
 - (C) A type of living organism
 - (D) A taxonomic group of any ranking
7. Sorghum is considered as camel crop because of:-
- (A) Deep root system
 - (B) Resistant to drought
 - (C) Shallow root system
 - (D) Nutrient exhaustiveness
8. Anjeer fruits are used to cure:-
- (A) Pain
 - (B) Fever
 - (C) Piles
 - (D) None
9. Occurrence of unisexual flowers is the characteristic feature of :-
- (A) Brassicaceae
 - (B) Euphorbiaceae
 - (C) Chenopodiaceae
 - (D) Apocynaceae

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10. Which one of the following is known as grass family:-
- (A) Graminae
 - (B) Cyperaceae
 - (C) Palmae
 - (D) Liliaceae
11. Numerical taxonomy is also known as :-
- (A) Chaemotaxonomy
 - (B) Serotaxonomy
 - (C) Teximetrics
 - (D) Cytotaxonomy
12. Cyto taxonomy support the inclusion of yucca in family :-
- (A) Liliaceae
 - (B) Arraryllidaceae
 - (C) Agavaceae
 - (D) Iridaceae
13. India's largest herbarium is placed at :-
- (A) Herbarium of F.R.I. Dehradun
 - (B) National Botanical Herbarium, shibpur
 - (C) Blattner Herbarium, Bombay
 - (D) National Botanical Garden's Herbarium, Lucknow

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14. The Corolla of Salvia is:-

- (A) 2/3 bilipped
- (B) 1/4 bilipped
- (C) 3/2 bilipped
- (D) 4/1 bilipped

15. The Occurrence of gynobasic style is- specific character of :-

- (A) Lamiaceae
- (B) Acanthaceae
- (C) Sobnaceae
- (D) Verbenaceae

16. Inflorescence found in family compositae is :-

- (A) Raceme
- (B) Spike
- (C) Umbel
- (D) Head

17. The Botanical name of Amla is:-

- (A) Phyllanthus niruri
- (B) Ricinus Communis
- (C) Emblica officinalis
- (D) Chenopodium album

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18. Pollinia is found in family :-

- (A) Liliaceae
- (B) Poaceae
- (C) Orchidaceae
- (D) Palmae

19. Inflorescence in family ranunculaceae is-

- (A) Racemose
- (B) Head
- (C) Compound Head
- (D) Cymose

20. Jeweler's weights are obtain form:-

- (A) Sesbania grandiflora
- (B) Abrus precatorius
- (C) Psoralea corylifolia
- (D) Cyamopsis tetragonaloba

Section - B

(Very Short Answer Type Questions)

(2 marks each)

Note: -Attempt any *eight* questions:

1. Give name of father Taxonomy.

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2. One merit and one demerit of Bentham & Hooker system of classification.
3. Botanical name & vernacular name of any two plants of fabaceae.
4. Write Botanical name & family of Tulsi.
5. Write Botanical name & family of Teak or sagon
6. Name of inflorescence found in family of Euphorbiaceae.
7. Syngenesious stamen
8. Botanical name and vernacular name of two plants of zingiberaceae.
9. Name of two botanical gardens.

Section - C

(Short Answer Type Questions)

(3 marks each)

Note : Attempt any Eight Questions.

1. Major taxonomic evidences of Embryology.
2. Give four principles of Takhtajam classification.
3. Three merits of cronquist classification.
4. Androceium of family cucurbitaceae.
5. Floral diagram & floral formula of coriandrum & ativum.
6. Two name & Place of Botanical garden of India.
7. Botanical name family & 2 economic importance of Neem.

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8. Compare cyperaceae & Poaceae by stem leaves and flower.
9. Principle of Priority.

Section - D

(Long Answer Type Questions)

(5 marks each)

Note:- Attempt all question in 200 words.

1. Give Taxonomic evidence in Phytochemistry.

OR

Give outline & Principles of Hutchinson's system of classification.

2. Write the rules of Binomial Nomenclature

OR

Technique for preparation of Herbarium.

3. Systematic Position & characteristic feature of family Labiatae.

OR

Write Economic importance with botanical name and vernacular name of family Asteraceae at five plants.

4. Systematic position & floral characters of zingiberaceae or orchidaceae.

OR

Systematic position & floral characters of Poaceae.

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