

[4]

SECTION 'C' $4 \times 10 = 40$

Long Answer questions (Word limit 400-450 words.)

UNIT-I

Q. 1. Write an account on plant taxonomic hierarchy.

OR

What do you mean by taxonomic hierarchy explain the species concept in brief.

UNIT-II

Q. 2. How does molecules marker world to unlock the evolutionary history of plant taxonomy.

OR

Write note on cytology in relation to plant taxonomy.

UNIT-III

Q. 3. Write note on sustainable utilization of Bio-resources.

OR

Describe Takhatjan system of classification.

UNIT-IV

Q. 4. Describe the family solanaceae.

OR

Describe the family Gramineae of tauseaceae.

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[1]

ROLL NO.....

BOT. 201/21

II SEMESTER EXAMINATION, 2021

M.Sc. (BOTANY)

PAPER-I

TAXONOMY & DIVERSITY OF ANGIOSPERMS

TIME: 3 HOURS

MAX.- 80

MIN.- 16

Note: The question paper consists of three sections A, B & C. All questions are compulsory.

Section A- Attempt all multiple choice questions.

Section B- Attempt one question from each unit.

Section C- Attempt one question from each unit.

SECTION 'A' $2 \times 8 = 16$

MCQ (Multiple Choice Questions)

1. Taxon is-

(a) A species

(b) A taxonomic group of any rank

(c) A genus

(d) A taxonomic unit

2. The National Botanical Research Institute is located at -

(a) Lucknow

(b) Deharadun

(c) Patan

(d) Delhi

3. Polyadelphous condition is found in -

(a) Rutaceae

(b) Compositae

(c) Leguminosae

(d) Liliaceae

[2]

4. A document containing a comprehensive account of a specific taxonomic group, generally a genus or family is-
- (a) Monograph (b) Flora
(c) Manual (d) Revision
5. Which one of the following is NOT covered under Taxonomy?
- (a) Alpha taxonomy (b) Beta taxonomy
(c) Delta taxonomy (d) Gamma taxonomy
6. The chief merit of Bentham and Hooker's classification is that-
- (a) It is a natural system of classification of all group of plants
(b) A system based on evolutionary concept
(c) It is also considered the phylogenetic aspects
(d) The description of taxa one based on actual examination of the specimens
7. Inflorescence in family Runculaceae is -
- (a) Racemose (b) Head
(c) Compound (d) Cymose
8. Fruit in family-cucurbitaceae is -
- (a) Berry (b) Nut
(c) Regnia (d) Legceme

[3]

SECTION 'B' $4 \times 6 = 24$

Short Answer Type Questions (Word limit 200-250 words.)

UNIT-I

- Q. 1.** Write note on Species Concept.

OR

Describe about Binomial nomenclature.

UNIT-II

- Q. 2.** Taxonomic evidence as phytochemistry explain it.

OR

GIS (Geographical information system) is plant taxonomy.

UNIT-III

- Q. 3.** Merits & demerits of Bentham and Hooker system of classification.

OR

Hutchinson's contribution in taxonomy.

UNIT-IV

- Q. 4.** Write note on characteristics feature of family liliaceae.

OR

What is phylogeny explain it.