

**G-2/209/21**

Roll No. ....

**M.Sc. II Semester Examination, 2021****BOTANY****Paper I**

(Taxonomy and Diversity of Plants)

Time : 3 Hours ]

[ Max. Marks : 80

**Note :** All questions are compulsory. Question Paper comprises of 3 sections. **Section A** is objective type/multiple choice questions with no internal choice. **Section B** is short answer type with internal choice. **Section C** is long answer type with internal choice.

**SECTION A****1×8=8****(Objective Type Questions)**

Choose the correct answer :

**1.** International Code of Botanical Nomenclature is consists of :

- (a) 2 division                      (b) 6 division  
(c) 3 division                      (d) 10 division

**2.** India's largest herbarium is placed at :

- (a) The Central National Herbarium, Kolkata  
(b) Herbarium of Forest Research Institute, Dehradun

P.T.O.

(c) Blattner Herbarium, Mumbai

(d) National Botanical Garden Herbarium, Lucknow.

**3.** Which of the following is Natural systems of classification :

- (a) Bessay's systems of classification  
(b) Engler and Prantle's classification  
(c) Bentham and Hooker's systems of classification  
(d) Hutchinson's classification.

**4.** The classification formed by Linnaeus is mainly based on :

- (a) Morphology                      (b) Anatomy  
(c) Embryology                      (d) Cytology

**5.** The condition of androecium in Cucurbitaceae is :

- (a) Syngeneses                      (b) Diadelphous  
(c) Synandrous                      (d) Tetradynamous

**6.** The largest family among dicotyledons is :

- (a) Umbelliferae                      (b) Asteraceae  
(c) Verbenaceae                      (d) Moraceae

**G-2/209/21**

[ 3 ]

7. The inflorescence found in Paddy is :

- (a) Verticillaster      (b) Spikelet  
(c) Capitulum      (d) Catkin

8. Pollinia is found in family :

- (a) Poaceae      (b) Cyperaceae  
(c) Zingiberaceae      (d) Orchidaceae

**SECTION B**

**4×6=24**

**(Short Answer Type Questions)**

**Note :** Answer with word limit 250 words.

**Unit-I**

1. Write note on Herbarium.

*Or*

Geographical Information System (GIS).

**Unit-II**

2. Discuss the merits and demerits of Engler and Prantle's systems of classification.

*Or*

Write note on Fossils angiosperms.

**Unit-III**

3. Write the inflorescence and draw floral diagram of family Asteraceae.

**G-2/209/21**

P.T.O.

[ 4 ]

*Or*

Write the inflorescence and draw floral diagram of family Umbelliferae.

**Unit-IV**

4. Write floral characters of family Zingiberaceae.

*Or*

Write floral characters of family Cyperaceae.

**SECTION C**

**12×4=48**

**(Long Answer Type Questions)**

**Note :** Answer with words limit 500 words.

**Unit-I**

1. Describe the International Code of Botanical Nomenclature.

*Or*

Describe the taxonomic evidences in relation to Anatomy.

**Unit-II**

2. Describe the Bentham and Hooker's systems of classification along with its merits and demerits.

**G-2/209/21**

[ 5 ]

*Or*

Describe the Hutchinson's classification of angiospermic plants.

**Unit-III**

- 3.** Describe the family Cucurbitaceae.

*Or*

Describe the family Meliaceae.

**Unit-IV**

- 3.** Give general account of family Orchidaceae.

*Or*

Describe the family Poaceae along with its economic importance.

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