

PD-169-S.E.-CV-19
M.Sc. BOTANY (1st Semester), REGULAR
Examination Dec.-2020
Paper-IV
TAXONOMY OF ANGIOSPERMS

Time : Three Hours]

[Maximum Marks : 80
[Minimum Pass Marks : 29

नोट : दोनों खण्डों से निर्देशानुसार उत्तर दीजिए। प्रश्नों के अंक उनके दाहिनी ओर अंकित हैं।

Note : Answer from both the Sections as directed. The figures in the right-hand margin indicate marks.

Section-A

1. Answer the following questions:- **1x10=10**

- (a) Silent valley is one of the extensively researched national parks in India. It is situated at.....state.
- (b)species have many subspecies.
- (c)was the first to give concept of species.
- (d) Level of taxonomic study concerned with the biological aspects of taxa including intraspecific populations, speciation, evolutionary rates and trends..... taxonomy.
- (e) The document that includes all the information related to a particular genus or plant family is termed as.....
- (f) According to Hutchinson, polypetaly is more.....than sympetaly.
- (g) National Botanic Gardens, Lucknow is now known as.....
- (h) All members of.....species are alike but they are reproductively isolated population.
- (i) "The flora of British India" was written by.....
- (j) The International code of Phylogenetic Nomenclature is also known as.....

2. Answer the following questions:- **2x5=10**

- (a) Give three features of the system of classification proposed by Bentham and Hooker's.
- (b) What is a subspecies? (c) What is neotype? (d) What is social forestry?
- (e) Give the abbreviation of GEMS.

Section-B

15x4=60

Answer all questions.

3. Describe the important principles and rules of International code of Botanical Nomenclature.

OR

Write short notes on any two of the following:-

- (a) Ecades (b) Types of speciation (c) Most-significant changes in Melbourne code.

4. What is phytochemistry? Discuss the important sources of taxonomic evidence derived from phytochemistry.

OR

Write short notes on any two of the following:-

- (a) Molecular technique as a taxonomic tools (b) Regional floras (c) Virtual Herbarium

5. Compare the classification of angiosperms proposed by Bentham and Hooker's Engler and Prantl and Hutchinson,

OR

Write short notes on any two of the following:-

- (a) Modern systems of classification

- (b) Sustainable utilization of bio-resources (c) Cladistic taxonomy

6. Give an account of major plant communities of the world.

OR

Write short notes on any two of the following:-

- (a) Hottest hot spots (b) Endemism in India (c) Importance of Germplasm