

**PD-169-S.E.-CV-19**  
**M.Sc. BOTANY (1<sup>st</sup> 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