

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2023  
(Third Semester)

Branch – BOTANY

TAXONOMY OF ANGIOSPERMS AND ECONOMIC BOTANY

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

1. ICBN Stands for -----.  
(i) Indian congress of biological names  
(ii) International code of botanical nomenclature  
(iii) International congress of biological names  
(iv) Indian code of botanical nomenclature
2. Diadelphous stamens are found in -----.  
(i) Fabaceae (ii) Rununculaceae (iii) Malvaceae (iv) Cucurbitaceae
3. Quinine is obtained from the plant that belongs to the family -----.  
(i) Rutaceae (ii) Rhamnaceae (iii) Sapotaceae (iv) Rubiaceae
4. In poaceae the spikelets are arranged in various ways on the main axis called-----.  
(i) Central axis (ii) Lemma (iii) Rachilla (iv)Glumes
5. Binomial name of potato -----.  
(i) *Solanum tuberosum* (ii) *Solanum xanthocarpum*  
(iii) *Solanum melangina* (iv) *Solanum torvum*

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

6. a Discuss the contributions of William Roxburgh.  
OR  
b Explain the Taktajan modern system of classification.
7. a Justify the salient features of Magnoliaceae.  
OR  
b Evaluate the economic importance of Myrtaceae.
8. a Discuss about floral characters of Sapotaceae.  
OR  
b Distinguish between vegetative characters of Rubiaceae and Pedaliaceae.
9. a Explain the salient features of Moraceae.  
OR  
b Sketch the floral characters of Arecaceae.
10. a State economic importance of *Gossypium hirsutum*.  
OR  
b Illustrate the harvesting process of *Elettaria cardamomum*.

**SECTION -C (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 6 = 30)

11. a Outline Engler and Prantl system of classification.  
OR  
b Analyze the preparation and mounting process of herbarium techniques.
12. a Elucidate the salient features of Combretaceae with neat labelled sketches.  
OR  
b Explain the vegetative and floral characters of Menispermaceae.
13. a Categorize the economic importance of Boraginaceae.  
OR  
b Enumerate the floral characters of Scropulariaceae.
14. a Justify salient features of Chenapodiaceae with neat diagrams.  
OR  
b Interpret the economic importance of Poaceae.
15. a Analyze the binomial, common names, parts used and economic importance of *Mangifera indica*.  
OR  
b Elucidate the cultivation and harvesting method of *Eucalyptus*.

Z-Z-Z

END