

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2025
(Fifth Semester)

Branch – BOTANY

PLANT TAXONOMY 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 This is considered as a demerit of the 'Engler and Prantl' in the system of classification
 - (i) Gymnosperms are placed between monocotyledons and dicotyledons
 - (ii) Dicotyledons are placed after monocotyledons
 - (iii) Dicotyledons are placed before monocotyledons
 - (iv) Gymnosperms are placed among Dicotyledons
- 2 Fruit of the family Cucurbitaceae ____.
 - (i) Drupe
 - (ii) Berry
 - (iii) Pepo
 - (iv) Muskmelon
- 3 Pollinium present in the following family.
 - (i) Asclepiadaceae
 - (ii) Asteraceae
 - (iii) Lamiaceae
 - (iv) Acanthaceae
- 4 Glume present in
 - (i) Poaceae
 - (ii) Liliaceae
 - (iii) Arecaceae
 - (iv) Cannaceae
- 5 Clove belongs to the family ____
 - (i) Araceae
 - (ii) Piperaceae
 - (iii) Liliaceae
 - (iv) Myrtaceae

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

- 6 a Bringout numerical taxonomy.
OR
b Outline typification.
- 7 a Describe floral structure of Fabaceae.
OR
b Explain umbel inflorescence.
- 8 a Classify inflorescence in Asteraceae.
OR
b Describe the morphology of Acanthaceae.

Cont...

- 9 a Outline the general features of Euphorbiaceae.
OR
b Show the fruit types in Arecaceae.
- 10 a Describe cultivation practices of clove.
OR
b State the floral structure of Cannaceae.

SECTION -C (30 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks

(5 x 6 = 30)

- 11 a Discuss on ICBN.
OR
b Elucidate modern trends in plant taxonomy.
- 12 a Enumerate Apiaceae.
OR
b Examine the floral structure and formula for Cucurbitaceae.
- 13 a Give an account on general characteristics of Asclepiadaceae.
OR
b Describe the features of Apocyanaceae.
- 14 a Describe the features of Liliaceae.
OR
b Elucidate inflorescence of Orchidaceae.
- 15 a Highlight the economic importance of cotton.
OR
b Discuss on nomenclature, cultivation and economic importance of chick pea.

Z-Z-Z

END