

**PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)**

**BSc DEGREE EXAMINATION DECEMBER 2022
(Fifth Semester)**

Branch – BOTANY

PLANT SYSTEMATICS AND ECONOMIC BOTANY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10 x 1 = 10)

1. Level of taxonomic study concerned with the biological aspects of taxa, including intraspecific populations, speciation, evolutionary tests and trends

(i) Alpha taxonomy	(ii) Beta taxonomy
(iii) Gamma taxonomy	(iv) Theta taxonomy

2. The newly collected specimen which is used as a substitute, when the original type material is missing in a herbarium, is designated as

i) Lectotype	(ii) Holotype	(iii) Neotype	(iv) Isotype
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3. Fruits in family Brassicaceae are

i) Siliqua	(ii) Nut	(iii) Etaerio	(iv) Capsule
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4. Which is incorrect for family Rutaceae?

i) Exstipulate	(ii) Pedicellate
(iii) Perigynous	(iv) Syncarpous

5. Inflorescence of Asteraceae is

i) Verticillaster	(ii) Cyathium	(iii) Catkin	(iv) Capitulum
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6. Which of the following is not the character of family Lamiaceae?

i) Quadrangular	(ii) Ebracteate
(iii) Actinomorphic	(iv) Gamopetalous

7. Inflorescence in family Euphorbiaceae is

i) Head	(ii) Cyathium	(iii) Catkin	(iv) Spike
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8. Which of the following is absent in Poaceae?

i) Carpels	(ii) Leaf	(iii) Petals	(iv) Stem
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9. Major food crops of the world belongs to the family.

i) Leguminosae	(ii) Solanaceae	(iii) Cruciferae	(iv) Gramineae
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10. Fibre of great commercial importance derived from epidermis is

i) Flax	(ii) Hemp	(iii) Coir	(iv) Cotton
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SECTION - B (35 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5 x 7 = 35)

11. a. What is author citation?

OR

b. Produce the method of herbarium techniques.

Cont...

12. a. Describe the diagnostic characters of Rutaceae.
OR
b. Explain the floral diagram and floral formula of any Cucurbitaceae member you have studied.
13. a. Explain about the head inflorescence with a neat diagram.
OR
b. Summarize the economic importance of Asteraceae.
14. a. Give an account on economic importance of Euphorbiaceae
OR
b. Show diagnostic features of *Canna indica*.
15. a. State the harvest method of red gram.
OR
b. Outline the cultivation of cotton.

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

16. Describe the effective and valid publication.
17. Explain the floral characters of Apiaceae.
18. Discuss about the floral characters of any member of Asclepiadaceae with a neat sketch.
19. Summarize economic importance of the family Poaceae.
20. Explain the process of cultivation of clove.

Z-Z-Z

END