

(6 pages)

Reg. No. :

Code No. : 7894

Sub. Code : PBOM 31

M.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2019.

Third Semester

Botany – Core

TAXONOMY OF ANGIOSPERMS AND
ECONOMIC BOTANY

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Binomials with identical genus name and specific epithet are called
- (a) Homonym (b) Tautonym
(c) Basionym (d) Synonym

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

(a) Lectotype (b) Holotype
(c) Neotype (d) Isotype

3. The central National Herbarium is located at

(a) Mumbai (b) Calcutta
(c) Chennai (d) Delhi

4. *Tectona grandis* L. placed under the family

(a) Acanthaceae (b) Convolvulaceae
(c) Verbenaceae (d) Bignoniaceae

5. Labellum in Orchidaceae comes to anterior side by the twisting of the ovary through 180 degree. This process is called

(a) adnation (b) articulation
(c) resupination (d) attenuation

6. *Gomphrena globosa* L. is a member of

(a) Acanthaceae (b) Amaranthaceae
(c) Verbenaceae (d) Bignoniaceae

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7. DNA barcoding is a plant taxonomic method that uses a short genetic marker
 (a) AFLP (b) ISSR
 (c) RFLP (d) plastid *matK* gene
8. This technique is also called as southern hybridization technique.
 (a) SSR (b) RAPD
 (c) RFLP (d) ISSR
9. Gum Arabic is obtained from
 (a) *Acacia nilotica* (b) *Acacia concina*
 (c) *Acacia senegal* (d) *Acacia catechu*
10. Red sanders is the common name given to
 (a) *Santalum album* L.
 (b) *Pterocarpus santalinus* L.
 (c) *Delonix regia* [Hook] Raf.
 (d) *Azadirachta indica* A.Juss.

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).
 Each answer should not exceed 250 words.

11. (a) Give an outline of Linnaean classification of plants.

Or

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- (b) What are the principles involved in Retention and Rejection of names?
12. (a) Outline the floral characters of Apocynaceae and give suitable diagrams.

Or

- (b) Describe the floral characters of Convolvulaceae and give suitable diagrams.
13. (a) Bring out the salient features of Amaranthaceae and give suitable diagrams.

Or

- (b) Describe the diagnostic features of Commelinaceae and give suitable diagrams.
14. (a) Write short notes on Virtual herbaria.

Or

- (b) Explain how chemical evidences solved taxonomic problems with suitable examples.
15. (a) Write short notes on and Processing of Coffee.

Or

- (b) Write short notes on Processing of Cardamom.

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PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)
Each answer should not exceed 600 words.

16. (a) Describe the preparation of herbarium.

Or

- (b) Write an essay on Typification with suitable example.

17. (a) Write an essay on the general characters of Combretaceae.

Or

- (b) Write an essay on the general characters of Bignoniaceae.

18. (a) Describe the floral variation of Euphorbiaceae family.

Or

- (b) Write an essay on the general characters of poaceae.

19. (a) Explain how Anatomical evidences solved taxonomic problems with suitable examples.

Or

- (b) Write an essay on BAR coding in plants.

20. (a) Give an account of two timber yielding plants.

Or

- (b) Name any two fibre yielding plants. Describe the methods of fibre extraction from them and their commercial uses.

