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Reg. No. :

Code No. : 10531 E Sub. Code : CMBO 52

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2024.

Fifth Semester

Botany — Core

**MORPHOLOGY AND TAXONOMY OF
ANGIOSPERMS**

(For those who joined in July 2021-2022 only)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Runner is a

- (a) Stem modification
- (b) Leaf modification
- (c) Flower modification
- (d) Root modification

2. Achene is a

- (a) Dry indehiscent fruit
- (b) Dry dehiscent fruit
- (c) Fleshy fruit
- (d) Aggregate fruit

3. Example for the phylogenetic system of classification

- (a) Bentham and Hooker
- (b) Engler and Prantl
- (c) Carl Linnaeus
- (d) Bessey

4. Central National Herbarium is situated at

- (a) Dehradun (b) Coimbatore
- (c) Kolkatta (d) Lucknow

5. Cremocarp is the type of fruit in

- (a) Apiaceae (b) Rutaceae
- (c) Cucurbitaceae (d) Caesalpiniaceae

6. Tamarind belongs to the family

- (a) Caesalpiniaceae
- (b) Nymphaeaceae
- (c) Annonaceae
- (d) Rutaceae

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7. Pollinium is the characteristic feature of the family

- (a) Asclepiadaceae
- (b) Rubiaceae
- (c) Convolvulaceae
- (d) Sapotaceae

8. Botanical name of sweet potato

- (a) *Solanum nigrum*
- (b) *Albizia lebbek*
- (c) *Ipomoea batatas*
- (d) *Dendrocalamus strictus*

9. Betel nuts are obtained from the family

- (a) Arecaceae
- (b) Liliaceae
- (c) Amaranthaceae
- (d) Euphorbiaceae

10. Botanical name of Senkanthal plant

- (a) *Amaranthus edulis*
- (b) *Euphorbia hirta*
- (c) *Gloriosa superba*
- (d) *Areca catechu*

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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 account of stem modifications.

Or

(b) Classify the fruits.

12. (a) What do you mean by phylogenetic system of classification? Mention its merits and demerits.

Or

(b) Explain the author citation.

13. (a) Explain the floral characters of Nymphaeaceae.

Or

(b) Describe the important diagnostic features of Apiaceae.

14. (a) Identify the key characters of Sapotaceae.

Or

(b) Mention the floral features of Lamiaceae.

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15. (a) Describe the floral features of Arecaceae.

Or

- (b) Explain the structure of Cyanthium.

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Critically examine the special types of inflorescence.

Or

- (b) Analyse any five modifications of root.

17. (a) Discuss the natural system of classification.

Or

- (b) Highlight the principles of ICBN.

18. (a) Why Annonaceae is considered as a primitive family? Explain with reasons.

Or

- (b) Discuss in detail the floral characters of Apiaceae.

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19. (a) Describe the salient features of Rubiaceae.

Or

- (b) Explain the floral features of Asclepiadaceae.

20. (a) Write an essay on the economic importance of Poaceae.

Or

- (b) Highlight the floral features of Liliaceae.

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