

Code No. : 30531 E Sub. Code : CMBO 52

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2023.

Fifth Semester

Botany – Core

MORPHOLOGY AND TAXONOMY OF
ANGIOSPERMS

(For those who joined in July 2021-22)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

- Pneumatophores are seen in
 - Sammophytes
 - Hydrophytes
 - Xerophytes
 - Halophytes
- Identify the cymose inflorescence from the following
 - Dichasiam
 - Spike
 - Spadix
 - Catkin

- Botanical name of the plant *erukku*
 - Ruta graveolens*
 - Lawsonia inermis*
 - Asclepias curasavica*
 - Calotropis gigantean*
- Coffee plant belongs to the family
 - Sapotaceae
 - Convolvulaceae
 - Rubiaceae
 - Lamiaceae
- Leafy vegetables are normally obtained from
 - Euphorbiaceae
 - Poaceae
 - Liliaceae
 - Amaranthaceae
- Spike let inflorescence
 - Amaranthaceae
 - Euphorbiaceae
 - Poaceae
 - Liliaceae

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- Identify the artificial system of classification
 - Bentham and Hooker
 - Engler and Prantl
 - Carl Linnaeus
 - Beasey
- Who among the following has introduced the binomial nomenclature?
 - Gasper Bauhin
 - Carl Linnaeus
 - CE Beasey
 - Bentham
- Nelumbium* belongs to the family
 - Annonaceae
 - Rutaceae
 - Nymphaeaceae
 - Apiaceae
- Tendrils are the common characters of the family
 - Apiaceae
 - Rutaceae
 - Cucurbitaceae
 - Annonaceae

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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.

- List down any two modification of leaf
Or
 - Describe the parts of a flower.
- Bring out the systems of classification.
Or
 - Highlight the principles of ICBN.
- Mention the primitive characters of Annonaceae.
Or
 - Write down the staminal variations in Cucurbitaceae.
- Discuss the floral characters of Rubiaceae.
Or
 - Describe the structure of the inflorescence of Lamiaceae.
- How will you identify the members of the family Amaranthaceae?
Or
 - List down the diagnostic features of the family Liliaceae.

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[P.T.O.]

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Write an essay on racemose inflorescence.
Or
(b) Describe the types of Root modifications.
17. (a) Classify the flowering plants according to Bentham and Hooker's of classification.
Or
(b) Discuss the herbarium technique.
18. (a) Discuss in detail the diagnostic features of Caesalpiniaceae.
Or
(b) Explain the vegetative and floral Characters of Rutaceae.
19. (a) Examine the diagnostic features of Sapotaceae.
Or
(b) Analyse the floral features of Convolvulaceae.

20. (a) Highlight the key identification characters of Euphorbiaceae.

Or

- (b) Bring out the economic importance of Poaceae.
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