

Code No. : 30369 E Sub. Code : AMBO 52

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

Fifth Semester

Botany – Core

MORPHOLOGY AND TAXONOMY OF
ANGIOSPERMS

(For those who joined in July 2020 only)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

- Jackfruit is a
 - Sorosis
 - Berry
 - Drube
 - Aggregate
- Verticillaster inflorescence is present in
 - Rutaceae
 - Lamiaceae
 - Euphorbiaceae
 - Poaceae

- Gynoestigium present in
 - Vinca*
 - Euphorbia*
 - Croton*
 - Calotropis*
- Which plant is used for the treatment of Jaundice?
 - Catharanthus roseus*
 - Piper nigrum*
 - Phyllanthus amarus*
 - Coleus amboinicus*
- The family of curved embryo is
 - Euphorbiaceae
 - Poaceae
 - Arecaceae
 - Amaranthaceae

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

- Explain briefly about Inflorescence.

Or

 - Give a short note on modification of roots.

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- Genera Plantarum consists of _____ volumes.
 - 3
 - 2
 - 20
 - 1
- Which one of the following year Angiosperm Phylogeny Group Classification (APG) was introduced?
 - 1998
 - 2003
 - 2009
 - 2016
- Which family is commonly called as Gourd family?
 - Asclepiadaceae
 - Cucurbitaceae
 - Rutaceae
 - Sterculiaceae
- Primitive family is
 - Annonaceae*
 - Rutaceae*
 - Apiaceae*
 - Lamiaceae*
- Latex secreting plant is
 - Rubia*
 - Verbena*
 - Catharanthus*
 - Lantana*

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- Write short notes on units of Classification.

Or

 - List out the merits of Bentham and Hooker Classification.
- Explain the floral characteristics of the family Apiaceae.

Or

 - Write short notes on the floral characteristics of Cucurbitaceae.
- Write brief account on the floral characteristics of Convolvulaceae.

Or

 - Bring down the economic importance of the family Rubiaceae.
- Explain the structure of spikelet of grass.

Or

 - Mention the floral characters 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) What is Phyllotaxy? Add its types with suitable examples.

Or

- (b) Describe the various parts of Angiosperm Flower.

17. (a) Describe phylogenetic system of classification.

Or

- (b) Explain the outline of Bentham and Hooker Classification of plants.

18. (a) Write a detailed account on the floral characteristics and economic importance of Rutaceae.

Or

- (b) "Annonaceae is the primitive family among polypetalae" – Discuss.

19. (a) List out the economic importance of the members of Lamiaceae.

Or

- (b) Explain the family Asclepiadaceae with technical term.

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20. (a) Illustrate the floral characteristics of the family Amaranthaceae.

Or

- (b) Write a detailed account on the economic importance of Euphorbiaceae.

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