

(6 pages)

**Reg. No. :** .....

**Code No. : 30432 E      Sub. Code : SMBO 51**

B.Sc. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 2021.

Fifth Semester

Botany — Main

MORPHOLOGY AND TAXONOMY OF  
ANGIOSPERMS

(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. Stilt roots are found in

- |               |           |
|---------------|-----------|
| (a) Rice      | (b) Maize |
| (c) Groundnut | (d) Gram  |

2. Whorled Phyllotaxy is found in

- |                |            |
|----------------|------------|
| (a) Calotropis | (b) Olimum |
| (c) Allamanda  | (d) Guava  |

3. Benthem and Hooker described \_\_\_\_\_ families.
- (a) 200 (b) 201  
(c) 202 (d) 105
4. Which one of the following is the correct Taxonomic Hierarchy?
- (a) Division, Class, Series, Order and Family  
(b) Division, Order, Class, Series, and Family  
(c) Order, Division, Class, Series and Family  
(d) Series, Order, Division, Class and Family
5. Which family has obdiplostemonous stamens?
- (a) Sterculiaceae (b) Cucurbitaceae  
(c) Rutaceae (d) Rubiaceae
6. Inferior ovary is found in
- (a) Anonaceae (b) Rutaceae  
(c) Sapotaceae (d) Cucurbitaceae
7. Translators are found in
- (a) Asclepiadaceae (b) Cucurbitaceae  
(c) Amaranthaceae (d) Sterculiaceae

8. Botanical name of rubber
- (a) *Acalypha indica*
  - (b) *Hevea brasiliensis*
  - (c) *Manihot esculenta*
  - (d) *Phyllanthus amarus*
9. Poaceae belongs to
- (a) Monocot                      (b) Dicot
  - (c) Monochlamydeae      (d) Both (a) and (b)
10. Which one of the following family has cereal crops?
- (a) Euphorbiaceae      (b) Poaceae
  - (c) Arecaceae              (d) Amaranthaceae

PART B — ( $5 \times 5 = 25$  marks)

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

Each answer should not exceed 250 words.

11. (a) Explain briefly about Racemose Inflorescence.

Or

- (b) Give a short note on modification of roots.

12. (a) List out the demerits of phylogenetic system of classification.

Or

- (b) What is binomial nomenclature? Add its Rules and Regulations.

13. (a) Explain the general characteristics of the family Apiaceae.

Or

- (b) Write short notes on the floral characteristics of Caesalpiniaceae.

14. (a) Bring down the salient feature of the family Rubiaceae.

Or

- (b) Mention the floral characters of the family Lamiaceae.

15. (a) Explain the spikelet inflorescence.

Or

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

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) How do you prepare herbarium? Add its importances.

17. (a) Write an essay on dichotomous key preparation.

Or

- (b) Describe Bentham and Hooker Classification of plants.

18. (a) Describe the floral characters of Cucurbitaceae. Add its economic importances.

Or

- (b) Describe the family Sterculiaceae.

19. (a) Explain the family Asclepiadaceae with technical term.

Or

- (b) Write a detailed account on floral characteristics of Convolvulaceae.

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

Or

- (b) Explain the economic importances of Poaceae.
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