

MORPHOLOGY AND TAXONOMY OF ANGIOSPERMS

(For those who joined in July 2020 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

- 1. Whorled phyllotaxy is seen in
 - (a) Ocimum
 - (b) Allamanda
 - (c) Mimosa
 - (d) Phyllanthus

- 2. Phyllode is found in this plant
 - (a) Opuntia
 - (b) Muchlenbeckia
 - (c) Euphorbia tirucalli
 - (d) Parkinsonia
- 3. _____ is used to protect the herbarium specimens against the attack of fungi.
 - (a) Naphthalene balls
 - (b) Mercuric chloride
 - (c) Para-dichloro-benzene
 - (d) D.D.T.
- 4. Who introduced the binomial nomenclature?
 - (a) Engler
 - (b) Hooker
 - (c) Bentham
 - (d) Linnaeus
- 5. Hesperidium is seen in
 - (a) Cucurbitaceae
 - (b) Rutaceae
 - (c) Caesalphiaceae
 - (d) Asclepiadaceae

- 6. Botanical name of bitter gourd is _____
 - (a) Cucumis sativus
 - (b) Momordica charantia
 - (c) Coccinia indica
 - (d) Cucurbita pepo
- 7. Translators are found in
 - (a) Asclepiadaceae
 - (b) Sterculiaceae
 - (c) Cucurbitaceae
 - (d) Amaranthaceae
- 8. Verticillaster inflorescence is seen in
 - (a) Sapotaceae
 - (b) Lamiaceae
 - (c) Rubiaceae
 - (d) Asclepiadaceae
- 9. The fruit of poaceae is _____
 - (a) Follicle
 - (b) Pepo
 - (c) Regma
 - (d) Caryopsis
- 10. Latex is extracted from
 - (a) Salvia
 - (b) Ocimum
 - (c) Leucas
 - (d) Hevea

PART B — (5 × 5 = 25 marks)

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

- 11. (a) With suitable examples, explain tap root modifications.

Or

 (b) With suitable diagrams, explain underground stem modifications.
- 12. (a) List out the merits and demerits of Bentham and Hookers classification.

Or

 (b) Write notes on binomial nomenclature.
- 13. (a) List out the salient features of Rutaceae.

Or

 (b) Enumerate the economic importance of cucurbitaceae.
- 14. (a) List out the salient features of sapotaceae.

Or

 (b) Describe the floral characters of the family Lamiaceae.

15. (a) Describe the inflorescence of genus euphorbia.

Or

(b) Give an account about the inflorescence of Poaceae.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Explain the various types of racemose inflorescence seen in plants.

Or

(b) Write an essay on phyllotaxy.

17. (a) Describe Bentham and Hooker classification of plants.

Or

(b) Write an essay on the herbarium preparation.

18. (a) Write a detailed account on the character and economic importance of caesalpiniaceae.

Or

(b) Explain the floral characters of the family apiaceae.

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19. (a) Elaborately discuss the salient features of asclepiadaceae.

Or

(b) Describe the family Rubiaceae.

20. (a) Explain the family characters of euphorbiaceae.

Or

(b) Poaceae is an economically important family - substantiate this statement.

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