

(6 pages)

Reg. No. :

Code No. : 30494 E

Sub. Code : CABO 11

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2022.

First/Third Semester

Botany – Allied

PLANT DIVERSITY AND MEDICINAL PLANTS

(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. Common name of *Polyporus* is
(a) Bracket fungi (b) Cup fungi
(c) Wood fungi (d) Rock fungi
2. Phycoerythrin pigment is obtained from
(a) *Volvox* (b) *Gracilaria*
(c) *Caulerpa* (d) *Oedogonium*

3. *Usnea* is morphologically a
(a) Foliose lichen
(b) Crustose lichen
(c) Squamulose lichen
(d) Fruticose lichen
4. In *Funaria*, the antherozoids are
(a) aciliated (b) biciliated
(c) multiciliated (d) monociliated
5. Which among the following is called the vascular cryptogams?
(a) Bryophyte (b) Algae
(c) Pteridophyte (d) Gymnosperm
6. Turpentine is obtained from
(a) *Pinus* (b) *Lycopodium*
(c) *Funaria* (d) *Nostoc*
7. Cyathia inflorescence is commonly found in
(a) Poaceae (b) Rutaceae
(c) Asclepiadaceae (d) Euphorbiaceae



8. Gland dotted leaves are the characteristic feature of
 (a) Asclepiadaceae (b) Rutaceae
 (c) Poaceae (d) Euphorbiaceae
9. Vincristine is obtained from
 (a) *Solanum torvum*
 (b) *Papaver somniferum*
 (c) *Catharanthus roseus*
 (d) *Vetiveria zizanioides*
10. *Milagu* is the tamil vernacular for the plant
 (a) *Coleus amboinicus*
 (b) *Catharanthus roseus*
 (c) *Phyllanthus amarus*
 (d) *Piper nigrum*

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Explain the asexual reproduction of *volvox*.
 Or
 (b) Highlight the economic uses of fungi.

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12. (a) Examine the internal organization of the thallus of *Usnea*.

Or

- (b) Analyse the internal structure of the sporophyte of *Funaria*.

13. (a) Describe the internal structure of leaf of *Lycopodium*.

Or

- (b) Highlight the internal structure of needle of *Pinus*.

14. (a) Identify the merits and demerits of Bentham and Hooker's system of classification.

Or

- (b) Write down the systematic position and key identification characters of Asclepiadaceae.

15. (a) List down the phytochemical constituents of *Piper nigrum*.

Or

- (b) Evaluate the phytochemical compounds of *Aloe Vera*.

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PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Examine the general characters of algae.

Or

- (b) Describe the vegetative structure of *Polyporus*.

17. (a) Discuss the vegetative and asexual modes of reproduction observed in *Usnea*.

Or

- (b) Highlight the structural organization of the female gametophyte of *Funaria*.

18. (a) Write an essay on the general characters of Gymnosperms.

Or

- (b) Describe the organization of Strobili in *Lycopodium*.

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19. (a) Discuss, in detail, the salient features of Euphorbiaceae.

Or

- (b) Bring out the diagnostic features of Poaceae.

20. (a) Explain the botanical and pharmacological features of *Coleus amboinicus*.

Or

- (b) Decipher the phytochemical constituents of *Catharanthus roseus*.

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