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Reg. No. : .....

Code No. : 20530 E Sub. Code : CABO 11

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

First/Third Semester

Botany — Allied

PLANT DIVERSITY AND MEDICINAL BOTANY

(For those who joined in July 2021 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Identify the most advanced algae

- (a) Chlorophyceae
- (b) Cyanophyceae
- (c) Bacillariophyceae
- (d) Rhodophyceae

2. Which among the following is an edible fungus?

- (a) *Aspergillus* (b) *Polyporus*
- (c) *Rhizopus* (d) *Agaricus*

3. Lichen is an example for

- (a) Parasitism (b) Predatorship
- (c) Symbiosis (d) Saprophytic

4. Which among the following is widely regarded as the amphibians of plant kingdom?

- (a) Bryophytes (b) Pteridophytes
- (c) Gymnosperms (d) Algae

5. Which among the following is called vascular cryptogams?

- (a) Bryophytes (b) Pteridophytes
- (c) Gymnosperms (d) Algae

6. Turpentine is obtained from

- (a) Gymnosperm (b) Fungi
- (c) Algae (d) Bryophytes



7. How many families are recognized by Bentham and Hooker in angiosperm classification?

- (a) 198 (b) 200  
(c) 202 (d) 190

8. Where you come across pollinium?

- (a) Rutaceae (b) Euphorbiaceae  
(c) Asclepiadaceae (d) Poaceae

9. Which among the following plant is used in cosmetic industries?

- (a) *Aloe vera*  
(b) *Piper nigrum*  
(c) *Phyllanthus amarus*  
(d) *Coleus amboinicus*

10. Vincristine is obtained from

- (a) *Aloe vera*  
(b) *Coleus amboinicus*  
(c) *Catharanthus roseus*  
(d) *Phyllanthus amarus*

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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.

11. (a) List down the general characters of algae.

Or

(b) Draw the structure of *Volvox* colony.

12. (a) Explain the internal structure of *Usnea* thallus.

Or

(b) Bring out the general characters of Bryophytes.

13. (a) Highlight the internal structure of the stem of *Lycopodium*.

Or

(b) List down the general characters of Gymnosperms.

14. (a) Examine the inflorescence of euphorbiaceae.

Or

(b) Analyse the salient features of Rutaceae.

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15. (a) Mention the common name, family, morphology of the useful part and medicinal uses of *Phyllanthus amarus*.

Or

- (b) Explain the medicinal uses of *Piper nigrum*.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Describe the economic importance of algae.

Or

- (b) Examine the structure of basidiocarp of *Polyporus*.

17. (a) Criticize the sexual reproduction in *Usnea*.

Or

- (b) Illustrate the life cycle of *Funaria*.

18. (a) Describe the internal structure of the strobilus of *Lycopodium*.

Or

- (b) Criticize the events leading to the fertilization in *Pinus*.

19. (a) Examine the floral characters of Asclepiadaceae.

Or

- (b) Explain the economic importance of Poaceae.

20. (a) Analyse the medicinal properties and uses of *Coleus*.

Or

- (b) Explain the phytochemical properties and uses of *Catharanthus*.
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