

(6 Pages)

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

**Code No. : 30442 E      Sub. Code : SABO 11/  
AABO 11**

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

First/Third Semester

Botany — Allied

PLANT DIVERSITY AND MEDICINAL BOTANY

(For those who joined in July 2016–2020 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Which one of the following is a reserve food material of Algae?
  - (a) Starch                      (b) Protein
  - (c) Fat                         (d) Glucose

2. An example of unicellular fungi
  - (a) Yeast
  - (b) *Polyporus*
  - (c) *Pencillium*
  - (d) *Aspergillus*
3. Conductive tissue in moss is composed of
  - (a) Collenchyma
  - (b) Scelerenchyma
  - (c) Parenchyma
  - (d) None of these
4. The first land inhabitant plants are
  - (a) Bryophytes
  - (b) Pteridophytes
  - (c) Gymnosperms
  - (d) Angiosperms
5. Xylem vessels are absent in
  - (a) Algae
  - (b) Fungi
  - (c) Pteridophytes
  - (d) None of these
6. Roots of *Pinus* are associated with
  - (a) Bacteria
  - (b) Viruses
  - (c) Algae
  - (d) Fungi
7. Poaceae belongs to
  - (a) Monocot
  - (b) Dicot
  - (c) Monochlamydeae
  - (d) Both (a) and (b)

8. Which one of the family belongs to monochlamydeae  
(a) Euphorbiaceae (b) Cucurbitaceae  
(c) Rutaceae (d) Rubiaceae
9. The useful part of *Piper nigrum* is  
(a) Seed (b) Leaf  
(c) Stem (d) Fruit
10. Vincristine is obtained from  
(a) Catharanthus (b) Piper  
(c) Phyllanthus (d) Coleus

PART B — ( $5 \times 5 = 25$  marks)

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

Each answer should not exceed 250 words.

11. (a) Write short notes on algal pigments.

Or

- (b) Explain the general characteristics of fungi.

12. (a) Give short notes on soredia and isidia.

Or

- (b) Give an account of salient features of Bryophytes.

13. (a) Enumerate the general characters of pteridophytes.

Or

- (b) List out the general characteristics of gymnosperms.

14. (a) Explain the structure of spikelet of grass.

Or

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

15. (a) Write a detailed account on the medicinal uses of *Aloe vera*.

Or

- (b) Write down the binomial, family, useful part and uses of pepper.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) What are algae? Give an account on the characteristic features of algae.

Or

- (b) List out the economic importances of fungi.

17. (a) Describe the classification of lichens.

Or

- (b) Illustrate the capsule of *Funaria* with diagram.

18. (a) Explain the detailed notes on Reproduction of *Lycopodium*.

Or

- (b) Write an essay on the male and female cones of *Pinus*.

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

Or

- (b) Write an essay on characteristics of asclepiadaceae with suitable diagram.

20. (a) Write down the binomial, family, useful part and uses of *Coleus*.

Or

- (b) What is the binomial, family, useful part of *Pyllanthus*? Add its medicinal uses.
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