

(6 pages)

Reg. No. :

Code No. : 11649 E Sub. Code : SABO 11

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2018.

First/Third Semester

Botany — Allied

PLANT DIVERSITY AND MEDICINAL BOTANY

(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. Red algae belong to the class _____.
(a) Chlorophyceae (b) Phaeophyceae
(c) Rhodophyceae (d) Cyanophyceae
2. The fruit body of polyporus is called as _____.
(a) Ascocarp (b) Basidiocarp
(c) Cystocarp (d) Pericarp

3. An example of dual organism is
(a) Lichen (b) Funaria
(c) Volvox (d) Lycopodium
4. The thallus of funaria is _____.
(a) Sporophyte (b) Gametophyte
(c) Both (a) and (b) (d) None of these
5. These are called as vascular cryptogams
(a) Gymnosperms (b) Angiosperms
(c) Pteridophytes (d) Bryophytes
6. Winged Pollen is found in this
(a) Lycopodium (b) Pinus
(c) Cycas (d) Gnetum
7. Follicle type of fruit is the character of this family
(a) Rutaceae
(b) Poaceae
(c) Euphorbiaceae
(d) Asclepiadaceae

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8. Unisexual flowers are important character of this family

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

9. Aloe vera belongs to this family

- (a) Lamiaceae (b) Euphorbiaceae
(c) Liliaceae (d) Apocynaceae

10. The alkaloid vincristine is found in this plant

- (a) Phyllanthus amarus
(b) Piper nigrum
(c) Catharanthus roseus
(d) Coleus amboinicus

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 structure of volvox colony.

Or

(b) Describe the general characters of fungi.

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12. (a) Draw the longitudinal section of fruit body of usnea and explain.

Or

(b) Draw L.S. of Funaria capsule and label the parts.

13. (a) What are the general characters of Gymnosperms?

Or

(b) List out the general characters of pteridophytes.

14. (a) Write about the economic importance of poaceae.

Or

(b) Explain the floral characters of Asclepiadaceae.

15. (a) Write about the medicinally useful part and medicinal uses of Aloe vera.

Or

(b) Give the external morphology and medicinal uses of coleus amboinicus.

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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) Write in detail about the economic importance of algae.

Or

- (b) Explain the structure of fruit body and method of reproduction in polyporus.

17. (a) Write about the general characters and classification of Lichens.

Or

- (b) Describe the structure of male and female branches of funaria.

18. (a) Draw the L.S. of Lycopodium cone and explain its structure.

Or

- (b) Write short notes on :

- (i) Anatomy of pinus needle
- (ii) Structure pinus ovule.

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19. (a) Give the classification of Bentham and Hooker.

Or

- (b) Describe the important features and economic importance of the family Euphorbiaceae.

20. (a) Explain the external morphology, useful part and medicinal uses of phyllanthus amarus.

Or

- (b) Explain the external morphology, medicinally uses of Catharanthus roseus.

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