

(6 pages)

Reg. No. :

Code No. : 10826 E Sub. Code : SABO 11

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2019.

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. This algae is used in space research
- (a) Volvox
 - (b) Chlamydomonas
 - (c) Chlorella
 - (d) Nostoc

2. _____ is associated with the discovery of the antibiotic penicillin.
- (a) Alexander Fleming
 - (b) Robert Koch
 - (c) Louis Pasteur
 - (d) Leeuwenhoek
3. _____ is an organism which indicates atmospheric pollution.
- (a) Usnea
 - (b) Polyporus
 - (c) Funaria
 - (d) Volvox
4. It is the fertile part of the sporophyte of Funaria.
- (a) Foot
 - (b) Seta
 - (c) Capsule
 - (d) Calyptra
5. The plant body of Lycopodium is _____.
- (a) Gametophyte
 - (b) Sporophyte
 - (c) Parasite
 - (d) Saprophyte
6. Turpentine is obtained from _____.
- (a) Pinus
 - (b) Lycopodium
 - (c) Cycas
 - (d) Gnetum

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7. Cyathium inflorescence is found in this family
 (a) Rutaceae
 (b) Asclepiadaceae
 (c) Euphorbiaceae
 (d) Poaceae
8. The botanical name of sugarcane is _____.
 (a) Oryza sativa
 (b) Triticum vulgare
 (c) Hordeum vulgare
 (d) Saccharum officinarum
9. _____ is the medicinal plant belonging to the family apocynaceae.
 (a) Coleus (b) Catharanthus
 (c) Aloe (d) Piper
10. _____ part of phyllanthus amarus has the medicinal property.
 (a) Leaf (b) Root
 (c) Entire plant (d) Stem

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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 out the general characters of algae.
 Or
 (b) Describe the structure of volvox coenobium.
12. (a) Explain how lichens are classified based on the external morphology of thallus giving suitable example.
 Or
 (b) Give the general characters of bryophytes.
13. (a) Describe the internal structure of Lycopodium stem.
 Or
 (b) List out the general characters of Gymnosperms.
14. (a) Give the salient features of the family Rutaceae.
 Or
 (b) Write about the economic importance of poaceae.

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15. (a) Describe the external morphology of Aloe Vera with diagram.

Or

- (b) List out the medicinal uses of Catharanthus roseus.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Describe with diagram, how asexual reproduction takes place in volvox colony?

Or

- (b) Write an essay on the general characters of fungi.

17. (a) Describe the life cycle of usnea.

Or

- (b) Describe with suitable diagrams, the structure of antheridial and archegonial branches in funaria.

18. (a) Describe the general characters of pteridophytes.

Or

- (b) Describe the structure of male and female cones of pinus with neat diagrams.

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19. (a) Describe the Bentham and Hooker's classification.

Or

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

20. (a) Describe the external morphology and medicinal uses of phyllanthus.

Or

- (b) Give an account on the external morphology, part used and medicinal uses of pepper.

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