

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

Each answer should not exceed 600 words.

16. (a) Explain the life cycle of volvox.
Or
(b) Describe the economic importance of fungi.
17. (a) Explain in detail the thallus structure and reproduction of *Usnea*.
Or
(b) Describe the sporophyte of *Funaria* with neat diagram.
18. (a) Draw L.S. of *Lycopodium* cone and describe.
Or
(b) How does *Pinus* reproduce sexually?
19. (a) Describe the important characteristics of *Rutaceae*. Give a short note on economically important plants of this family.
Or
(b) Explain the floral characters of *Asclepiadaceae* with diagram.
20. (a) Describe the external morphology, parts used and medicinal uses of *Catharanthus roseus*.
Or
(b) Give the external morphology, part used and other medicinal uses of a medicinal plant you have studied which cures Jaundice.

Code No. : 11729 E Sub. Code : SABO 11

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 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. The asexual reproductive structure in *Volvox* is _____.
(a) gonidium (b) antheridium
(c) archegonium (d) oogonium.
2. This fungus is called as "Bracket fungus"
(a) *Mucor* (b) *Puccinia*
(c) *Polyporus* (d) yeast.
3. *Usnea* is _____ type of lichen.
(a) crustose (b) fruticose
(c) foliose (d) none of these.

4. The female reproductive structure in Bryophyte is _____
- (a) carpogonium (b) oogonium
(c) ascogonium (d) archegonium.
5. This part of lycopodium bears the sexorgans.
- (a) cone (b) spore
(c) porthallus (d) leaf.
6. The endosperm in Gymnasperm is _____.
- (a) haploid (b) diploid
(c) triploid (d) polyploid.
7. Hesperidium type of fruit is seen in this family
- (a) poaceae (b) rutaceae
(c) euphorbiaceae (d) asclepiadaceae.
8. Indian Rubber tree belongs to this family.
- (a) Asclepiadaceae (b) Poaceae
(c) Euphorbiaceae (d) Rutaceae.
9. Coleus belongs to _____ family.
- (a) apocynaceae (b) lamiaceae
(c) liliaceae (d) euphorbiaceae.
10. _____ part of Aloe vera is useful as medicine.
- (a) entire plant (b) leaf
(c) root (d) stem.

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Write about the habitat and fruit body of polyporus.
- Or
- (b) Give the general characters of algae.
12. (a) Write about the special structures associated with Lichen thallus.
- Or
- (b) Give the general characters of Bryophytes.
13. (a) Write a note on the prothallus of Lycopodium.
- Or
- (b) Describe the anatomy of pinus needle leaf.
14. (a) List out the merits and demerits of Bentham and Hooker's classification.
- Or
- (b) Write about Spikelet inflorescence.
15. (a) Describe about the medicinal uses and types of pepper.
- Or
- (b) Describe the external morphology of coleus.