

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted in during the academic year 2019 – 2020)

SUBJECT CODE: 19BT/AC/GB14

B. Sc. DEGREE EXAMINATION, NOVEMBER 2019
BRANCH VI (a) – ADVANCED ZOOLOGY AND BIOTECHNOLOGY
FIRST SEMESTER

COURSE : ALLIED – CORE
PAPER : GENERAL BOTANY-I
TIME : 3 HOURS
MAX.MARKS:100

SECTION – A (18 x 1 = 18 marks)

(I) CHOOSE THE CORRECT ANSWER: (5x1=5)

- The study of Algae is called
(a) Phytology (b) Phycology (c) Mycology (d) Palynology
- The cluster of brown, slender branched rooting hyphae is called
(a) Stolon (b) Hold Fast (c) Conidia (d) Sporangiohores
- Citrus Canker is a _____ disease.
(a) Bacterial (b) Viral (c) Fungal (d) All of above
- Hooded anther occurs in
(a) Cucurbitaceae (b) Lamiaceae (c) both (a) and (b) (d) Annonaceae
- Which one is the largest family of Angiosperm?
(a) Gramineae (b) Euphorbiaceae (c) Cucurbitaceae (d) None of the above

(II) FILL IN THE BLANKS: (5 x1=5)

- _____ is the common reserve food in Algae.
- Aspergillus* is also called as _____
- The stem of Poaceae is called _____
- _____ system of classification is a Natural System of Classification.
- _____ is a hemicyclic nature of flowers.

(III) STATE WHETHER THE FOLLOWING STATEMENTS ARE TRUE OR FALSE:
(3x1=3)

- Tikka disease of groundnut is a virus disease.
- Cucurbitaceae stem has bicollateral vascular bundles.
- The male sex organ of *Chara* is called Nucule.

(IV) MATCH THE FOLLOWING:**(5x1=5)**

- | | | |
|--------------------------|---|-----------------|
| 14. Red rot of sugarcane | - | Epipetalous |
| 15. Carpospores | - | Polyandrous |
| 16. Euphorbiaceae | - | Collectotrichum |
| 17. Custard apple | - | Red algae |
| 18. Apocynaceae | - | Cyathium |

(V) ANSWER ANY SIX QUESTIONS IN 50 WORDS EACH**(6x3=18)**

19. Air bladder
20. Pore fungi
21. Epiphytotic
22. Verticillaster
23. Gentianales
24. Basidiocarp
25. Alluvial soil
26. *Azolla*
27. Garden Tools

SECTION – B

ANSWER ANY FOUR QUESTIONS. EACH ANSWER NOT TO EXCEED 200 WORDS. DRAW DIAGRAMS WHEREVER NECESSARY.

(4x6=24)

28. Give an account of ultra structure of *Nostoc* cell.
29. Describe the structure of mycelium of *Rhizopus*.
30. Discuss the economic importance of Cucurbitaceae.
31. Write note on Biofertilizer.
32. What do you know about organic gardening?
33. Explain vertical farming.

SECTION – C

ANSWER ANY TWO QUESTIONS. EACH ANSWER NOT TO EXCEED 1000 WORDS. DRAW DIAGRAMS WHEREVER NECESSARY.

(2 x 20 = 40)

34. Enumerate the salient features of algae. .
35. Give an illustrated account of structure and life history of *Polyporus*.
36. Name any three important plant diseases and mention their casual organism, symptoms and control measures..
37. Write an essay on Bentham and Hooker's system of classification
