

SUBJECT CODE: 19BT/AC/GB14

B. Sc. DEGREE EXAMINATION, NOVEMBER 2022
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)

1. What is the mode of sexual reproduction in Chara
(a) Oogamous (b) Anisogamous (c) Isogamous (d) All of the above
2. The division of fungi called 'Club fungi'
(a) Zygomycota (b) Deuteromycota (c) Basidiomycota (d) Ascomycota
3. *Cercospora personata* causes disease in
(a) Ground nut (b) Sugarcane (c) Paddy (d) Wheat
4. Pick the right sequence of taxonomic categories
(a) Division-class-family-order-genus-species (b) Division-class-family-order-species-genus
(c) Division-class-order-family-genus-species (d) Division-order-class-family-genus-species
5. Which of the following is commonly used as a nitrogen fixer in paddy fields?
(a) *Frankia* (b) *Oscillatoria* (c) *Azospirillum* (d) *Rhizobium*

II FILL IN THE BLANKS:

(5 x1=5)

6. The term Algae was coined by _____
7. Fungi reproduce by _____
8. Plant pathology means the study of _____
9. _____ is called the father of Taxonomy
10. _____ gardening is without synthetic fertilizers and pesticides

III STATE WHETHER THE FOLLOWING STATEMENTS ARE TRUE OR FALSE:

(3x1=3)

11. Algae are photosynthetic organisms
12. *Aspergillus* comes under the division Ascomycota
13. *Polyporus* sp. is edible

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

- | | | |
|----------------------|---|------------------------|
| 14. Algae | - | Paddy |
| 15. <i>Rhizopus</i> | - | Biofertilizer |
| 16. Citrus canker | - | Fungi |
| 17. Poaceae | - | <i>Chara</i> |
| 18. <i>Rhizobium</i> | - | <i>Xanthomonas</i> sp. |

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

19. Stipulodes
20. Air bladder
21. Chlamyospore
22. Vegetative structure of *Polyporus*
23. Control of Citrus Canker
24. Verticillaster inflorescence
25. Spikelet in *Poaceae*
26. Define soil
27. *Rhizobium* as Biofertilizer.

SECTION – B

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

(4x6=24)

28. Describe the reproduction in *Sargassum*
29. List out the important salient features of Fungi
30. Control of Red rot of sugarcane
31. List out the general characters and the economic importance of the family Poaceae
32. Give the economic importance of the family Apocynaceae
33. List the benefits of organic garden

SECTION – C

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

(2x20=40)

34. Discuss the structure and reproduction in *Nostoc*
35. Give a detailed account on the causal organism, symptoms and control measures of the following diseases
 - a. Citrus canker
 - b. Tikka disease
36. Elaborate the outline of Bentham and Hooker's system of classification.
37. Describe the classification of different types of soil.
