

B. Sc. DEGREE EXAMINATION, NOVEMBER 2014
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: (5 X 1 = 5 MARKS)

1. Fruits of *Annona squamosa* are -----.
a. follicles b. pods c. berries d. drupes
2. Bentham and Hooker's system of classification is a
a. Artificial system b. Natural system c. Phylogenetic system. d. Modern system
3. The growth of the tree is faster during
a. Autumn b. Winter c. Summer d. Spring
4. Heterocysts are found in
a. *Volvox* b. *Chara* c. *Sargassum* d. *Nostoc*
5. Tikka disease is caused by
a. *Cercospora* b. *Albugo* c. *Puccinia* d. *Xanthomonas*

(II) FILL IN THE BLANKS: (5 X 1 = 5 MARKS)

6. The inflorescence in Arecaceae is -----.
7. The abnormal secondary thickening is called -----.
8. Fucoxanthin is found in -----.
9. In fungus, the cell wall material is -----.
10. Citrus canker is caused by -----.

(III) STATE WHETHER THE FOLLOWING STATEMENTS ARE TRUE OR FALSE: (4 X 1 = 4 MARKS)

11. *Rauvolfia serpentina* belongs to Apocynaceae.
12. Cork is also called Phellum.
13. The female sex organ in *Chara* is called as Globule.
14. In Tikka disease the primary infection takes place by soil borne conidia.

(IV) MATCH THE FOLLOWING:**(4 X 1 = 4)**

- | | | |
|----------------------|---|------------------|
| 15. Cucurbitaceae | - | scabby lesions |
| 16. Secondary growth | - | stolon |
| 17. Rhizopus | - | vascular cambium |
| 18. Citrus canker | - | pepo |

(V) ANSWER ANY SIX QUESTIONS IN 50 WORDS EACH**(6 x 3 = 18)**

19. Androecium in Apocynaceae
20. Medicinal plants and uses in Lamiaceae
21. Lenticels
22. Algal Flagella
23. Receptacles
24. Chlamydospores
25. Sterigmata
26. Geniculate conidiophores
27. *Xanthomonas citri*

SECTION – B

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

(4 x 6 = 24)

28. Write short notes on the economic importance of Cucurbitaceae.
29. Discuss the floral characters of Amaranthaceae
30. Write short notes on the anomalous structure found in the stem of *Boerhaavia*
31. Draw and describe the structure of Globule in *Chara*
32. Describe the structure of basidiocarp in *Polyporus*.
33. Write the causal organism, symptom and control measures of Tikka disease

SECTION – C

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

(2 x 20 = 40)

34. Outline the Bentham and Hooker's system of classification with its merits and demerits.
35. Explain secondary growth in a dicot stem.
36. Describe sexual reproduction in *Sargassum*.
37. Explain briefly the lifecycle in *Aspergillus*.
