

B. Sc. DEGREE EXAMINATION, NOVEMBER 2019
BRANCH V (a) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY
FIRST SEMESTER

COURSE : MAJOR – CORE
PAPER : ALGAE, FUNGI AND LICHENS
TIME : 3 HOURS **MAX.MARKS:100**

SECTION – A

ANSWER ALL QUESTIONS **(18 x 1=18)**

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

1. Distinct feature of *Oscillatoria* is/are
(a) Separation disc (b) No heterocysts (c) No sex organs (d) All.
2. The alga that is used in space travel as SCP is
(a) *Chlorella* (b) *Chlamydomonas* (c) *Nostoc* (d) *Gracillaria*.
3. Mode of nutrition in *Albugo* is
(a) Biotroph (b) Hemibiotroph (c) Perthotroph (d) Facultative paracite.
4. Which one of the following is the odd one?
(a) Teleutospore (b) Uredospore (c) Basidiospore (d) Conidiospore.
5. Example for crustose lichen is
(a) *Lacanora* (b) *Parmelia* (c) *Usnea* (d) *Cladonia*.

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

6. Trabeculae is specific to the algae -----.
7. Tetrasporangia is common in the algae -----.
8. ----- type of sexual reproduction takes place in *Albugo*.
9. Fruiting body of *Agaricus* is called as -----.
10. The algal partner of a lichen is called as -----.

III. TRUE OR FALSE: **(3x1=3)**

11. Reticulate chloroplast is seen in *Chladophora*.
12. Sexual reproduction is prominent in Fungi imperfecti.
13. Cyphellae are the asexual parts in lichen reproduction.

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

- | | |
|-----------------|-----------------------|
| 14. Stone wort | a. <i>Peziza</i> |
| 15. Fucales | b. <i>Synchytrium</i> |
| 16. Potato wart | c. <i>Parmelia</i> |
| 17. Coprophilus | d. <i>Sargassum</i> |
| 18. Saxicole | e. <i>Chara</i> |

V. ANSWER ANY SIX QUESTIONS:**Each answer should not exceed 50 words.****(6x3=18)**

19. Coenobium
20. Auxospores
21. Parasexual life cycle
22. Spawn
23. Conceptacle
24. Club root of cabbage
25. Tikka disease
26. Soredia
27. Cephaloidia

SECTION B

ANSWER ANY FOUR QUESTIONS. EACH ANSWER SHOULD NOT EXCEED 200WORDS. DRAW DIAGRAMS WHEREVER NECESSARY. (4x6=24)

28. Briefly write notes on life cycle of *Cladophora*.
29. Enumerate the economic importance of algae.
30. Outline the classification of Fungi. Mention the salient feature of the major classes.
31. Highlight the asexual and sexual life cycles of *Albugo*.
32. Write a short note on the apothecium of *Peziza*.
33. Discuss the economic importance of lichens.

SECTION C

ANSWER ANY TWO QUESTIONS.EACH ANSWER SHOULD NOT EXCEED 1000 WORDS. DRAW DIAGRAMS WHEREVER NECESSARY. (2x20=40)

34. Write in detail about the classification algae. Mention the salient feature of the major Classes.
35. With suitable diagrams, describe the life cycle of *Sargassum*.
36. Write down the economic importance of fungi in detail.
37. What is heteroecium? Explain the types of spores produced by *Puccinia*.
