STELLA MARIS COLLEGE, (AUTONOMOUS)
(For the Candidates admitted during the academic year 2019 –2020 & thereafter)
B.Sc. DEGREE EXAMINATION, NOVEMBER, 2021
BRANCH V (A) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY
FIRST SEMESTER

COURSE : MAJOR CORE
PAPER : ALGAE, FUNGI AND LICHENS
TIME : 3 HOURS
SUBJECT CODE: 19BT/MC/AF14 **MAX.MARKS : 100**

SECTION – A **(18 Marks)**

Answer the following questions

I. Fill in the blanks: **(9 x 1 = 9 Marks)**

1. *Nostoc* lacks_____ reproduction.
2. The common reserve food material found in fungi is _____.
3. *Cercospora* causes _____ disease in ground nut.
4. Small concave circular depression in lower cortex of foliose lichen which functions as respiratory organs refers to _____.
5. Fungi Imperfecti refers to the class _____.
6. Stonewort is the common name of _____.
7. *Synchytrium* causes_____ disease.
8. Sterile conceptacle found in the leaf of *Sargassum* is also known as_____.
9. The fungal partner of a lichen is called as _____.

II. Answer any <u>THREE</u> of the following each not exceeding 50 words (3 x 3 = 9 Marks)

10. Agarophyte
11. Diatomaceous earth
12. Dolipore septum
13. Biological weathering

SECTION – B **(2x6= 12 Marks)**

Answer any <u>TWO</u> questions each not exceeding 200 words. Draw neatly labelled diagrams wherever necessary.

14. Explain the structure of *Nostoc*. Add a note on the significance of Blue green algae.
15. Differentiate between the apothecium of *Peziza* and Lichen.
16. Write short notes on different types of lichen thalli.

SECTION – C **(1x20= 20 Marks)**

Answer any <u>ONE</u> question each not exceeding 1000 words: Draw neatly labelled diagrams wherever necessary.

17. Outline the classification of Algae as proposed by F.E.Fritsch (1935). Enumerate the general characteristic features of Algae. Add a note on its economic importance.

18. (a) Describe in detail the life cycle of *Puccinia graminis*.
    (b) Highlight the ecological and economic importance of Lichens.