



K15U 0203

Reg. No. :

Name :

III Semester B.Sc. Degree (CCSS – 2014 Admn. – Regular)
Examination, November 2015
CORE COURSE IN BOTANY/PLANT SCIENCE
3B03 BOT/PLS : Phycology, Mycology and Lichenology

Time : 3 Hours

Total Marks : 40

SECTION – A

Answer **all** :

1. Girdle shaped chloroplast is present in
 - a) Zygnema
 - b) Chlamydomonas
 - c) Ulothrix
 - d) Pinnularia
2. The fruit body of Pencillium is called
 - a) Apothecium
 - b) Cleistothecium
 - c) Perithecium
 - d) Stroma
3. The process of 'evection' is found in
 - a) Oedogonium
 - b) Cladophora
 - c) Polysiphonia
 - d) Vaucheria
4. Usnea is a
 - a) Basidiolichen
 - b) Foliose lichen
 - c) Crustose lichen
 - d) Fruitucose lichen

(4x1=4)

SECTION – B

Answer **any eight** :

5. Write notes on Nannandrous species.
6. Define Heterothallism.
7. Explain asexual reproduction in Pencillium.
8. Which group of fungi is called 'fungi' imperfecti ? Why ?

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9. Give a brief account on the pigments and reserve food materials of the algal classes which you have studied.
10. Explain auxospore formation in Pinnularia.
11. Explain the following :
 - a) Mycorrhiza
 - b) Helotism.
12. Differentiate between isogamy and anisogamy.
13. Discuss the economic importance of Fungi.
14. Describe zoospore formation in Vaucheria.
15. Explain plakea stage.
16. Explain the structure of fruitbody of Peziza. (8×2=16)

SECTION – C

Answer any four :

17. Explain the fruitbody of Agaricus with the aid of sketches.
18. Explain sexual reproduction in Zygnema. Give sketches.
19. Give an account on sex organs of Chara. Give diagrams.
20. Describe asexual reproduction of Cladophora.
21. Explain why Rhizopus is called 'Black mold'.
22. Discuss asexual reproduction of Lichen. (4×3=12)

SECTION – D

Answer any one :

23. Explain macrocyclic life cycle of Puccinia graminis with aid of diagrams.
24. Discuss triphasic life cycle of polysiphonia. Give diagrams.
25. Describe the structure of thallus and mode of reproduction of Sargassum. Give illustrations. (1×8=8)