

0089463



Reg. No. :

Name :



K19U 3308

I Semester B.Sc. Degree CBCSS(OBE)-Regular

Examination, November - 2019

(2019 Admissions)

COMPLEMENTARY ELECTIVE COURSE IN BOTANY

IC01BOT : MICROBIOLOGY, PHYCOLOGY, MYCOLOGY AND
LICHENOLOGY

Time : 3 Hours

Max. Marks : 40

Instruction to Candidates : Draw diagrams wherever specified.

PART - A

Objective type questions. Answer **All**.

(4x1=4)

1. Thick walled spores formed rarely in Rhizopus are
 - a) arthrospores
 - b) chlamydospores
 - c) porospores
 - d) phialospores
2. Which of the following is rod shaped bacterium?
 - a) Spirillum
 - b) Bacillus
 - c) Vibrio
 - d) Coccus
3. Capsid of virus is made up of
 - a) cellulose
 - b) protein
 - c) mucoprotein
 - d) starch
4. "Water bloom", is generally caused by
 - a) green algae
 - b) blue-green algae
 - c) bacteria
 - d) Hydrilla

PART - B

Short Essay Questions. Answer any **Eight**.

(8x2=16)

5. Explain the salient features of algae.

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(2)



6. Define coenobium with an example.
7. What are Virions?
8. Differentiate isogamy and anisogamy.
9. Write a brief note on diplobiontic life cycle.
10. What are "dwarf males".
11. Describe the mycelial structure of *Rhizopus*.
12. Briefly explain the structure of Globule of Chara.
13. Discuss the economic importance of algae.
14. "Lichens are pollution indicators", justify.
15. Explain the vegetative structure of *Spirogyra*.
16. Discuss the six-kingdom classification.

PART - C

Essay questions. Answer any **Four**.

(4×3=12)

17. Describe the sexual reproduction in *Volvox*.
18. Give well labelled diagram of structure of Nostoc filament and an individual cell.
19. Differentiate Gram positive and Gram negative Bacteria.
20. Explain the economic importance of Fungi.
21. Briefly explain the thallus structure of Sargassum.
22. Explain the mode of cell division and cap formation in Oedogonium.

PART - D

Long Essay Questions. Answer any **One**.

(1×8=8)

23. Describe the vegetative structure and reproduction in Polysiphonia.
 24. Write an essay on life cycle of Pucciniagraminis.
 25. Describe the economic importance of microbes.
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