



22. Write the causative organism, symptoms and control measures of blast disease of paddy.
23. Write notes on botulism.
24. Comment on the reproduction in cyanobacteria.
25. Give an account on asexual reproduction in lichens.
26. Explain the structure of nucule of Chara with the help of a diagram. (6×2=12)

SECTION – E

Answer any one :

Long essay type questions. **Each** question carries a weightage of 4.

27. Explain the macrocyclic life cycle of the rust fungus you have studied.
28. With the help of suitable diagrams explain the life cycle of Polysiphonia.
29. Explain the genetic recombination in bacteria. (1×4=4)

SECTION – D



Reg. No. :

Name :

V Semester B.Sc. Degree (CCSS – Reg./Supple./Imp.)
Examination, November 2014
CORE COURSE IN BOTANY/PLANT SCIENCE
5B08 BOT/PLS : Diversity of Life –1 – Microbiology, Mycology,
Phycology, Lichenology and Plant Diseases
(2011 and Earlier Admissions)

Time: 3 Hours

Total Weightage : 30

SECTION – A

Answer all.

Questions in bunches of **four**; **Each** bunch carries a weightage of 1 :

1. Choose the correct answer :

- i) The dominant pigment of blue green algae is
- | | |
|------------------|----------------|
| a) Phycoerythrin | b) Xanthophyll |
| c) Phycocyanin | d) Fucoxanthin |
- ii) The fruit body of Peziza is
- | | |
|----------------|-------------------|
| a) Perithecium | b) Cliostothecium |
| c) Apothecium | d) Stroma |
- iii) Which of the following is not found in bacterial cell ?
- | | |
|-------------|--------------------------|
| a) Glycogen | b) Fat |
| c) Protein | d) Endoplasmic reticulum |
- iv) Lichens are composite organisms consisting of algae and
- | | |
|-----------|-------------|
| a) Monera | b) Protozoa |
| c) Fungi | d) Bacteria |



2. State **True** or **False** :

- i) The thallus of Pythium is aseptate.
- ii) Globule is the female sex organ of Chara.
- iii) AIDS causing virus is a DNA virus.
- iv) Bordeaux mixture is a fungicide.

3. Fill in the blanks :

- i) The algal partner of lichen is called _____
- ii) Columella is present in the sporangium of _____
- iii) The causative organism of abnormal leaf fall of rubber is _____
- iv) _____ are the characteristic spores of diatoms.

4. Match the following :

A	B
i) Chlorella	Lactobacillus
ii) Fungal cellulose	Cyanobacteria
iii) Fermentation of milk	Autospores
iv) Heterocyst	Chitin

5. Answer in **one** word or in **one** sentence :

- i) Name the group of fungi in which sexual reproduction is absent.
- ii) Pyrenoids.
- iii) Mycorrhiza.
- iv) The scientist who developed the staining technique in bacteria. **(5×1=5)**

SECTION – B

Answer **any four** :

Differentiate the following. **Each** question carries a weightage of **1** :

6. Basidiomycetes and ascomycetes.
7. Autospores and aplanospores.



8. Necrosis and cankers.
9. Facultative and obligate parasites.
10. Prokaryotes and eukaryotes.
11. Zoospores and zygospores. **(4×1=4)**

SECTION – C

Answer **any five** :

Short answer questions. **Each** question carries a weightage of **1** :

12. PPLO.
13. What is Gongrosira stage ?
14. Salient features of Zygomycetes.
15. Mention the pigments and reserve food materials of Phaeophyceae.
16. What are plasmids ?
17. Define heterothallism.
18. Comment on bordeaux mixture. **(5×1=5)**

SECTION – D

Answer **any six** :

Short essay questions. **Each** question carries a weightage of **2**.

19. With the help of an example briefly explain the cell structure of Bacillariophyceae.
20. Explain the structure of apothecium.
21. Give an account on bacteriophages.