

B.Sc. CHEMISTRY
THIRD SEMESTER (REPEAT)
DIVERSITY OF CRYPTOGAMS
BSB-731
[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

(Objective)

Time: 30 mins.

Marks: 20

Choose the correct answer from the following:

1×20=20

- Asexual reproduction in Lichen takes place by formation of:
a. Pycnidiospore
b. Aplanospore
c. Zygosporangium
d. Chlamydozoospore
- Heterocyst is found in:
a. Nostoc
b. Anabaena
c. Both A and B
d. Aspergillus
- The vegetative body of algae is a:
a. Thallus
b. Mycelium
c. Pseudoplasmodium
d. Highly organized
- What is the storage product of most algae?
a. Cellulose
b. Glycogen
c. Starch and oil
d. Fat
- Volvox belongs to the class:
a. Rhodophyceae
b. Xanthophyceae
c. Chlorophyceae
d. Myxophyceae
- Marchantia* belongs to which of the following division?
a. Gymnosperm
b. Algae
c. Bryophyta
d. Fungi
- Identify the "plant amphibian".
a. Pteridophytes
b. Bryophytes
c. Algae
d. Gymnosperm
- "Gemma cups" are found in:
a. Bryophytes
b. Both "a" and "c"
c. Pteridophytes
d. None
- Gametophyte is dependent sporophyte in:
a. Bryophyte
b. Algae
c. Gymnosperm
d. Pteridophyte
- An example of pteridophyte:
a. *Gnetum*
b. *Polytrichum*
c. *Equisetum*
d. All of these

11. A virus is made up of:
 - a. Protein and nucleic acid
 - b. Protein coat and mitochondria
 - c. Nucleic acid and cell membrane
 - d. Nucleic acid, cell wall and cell membrane
12. Bacteria are morphologically how many types?
 - a. 1
 - b. 2
 - c. 3
 - d. 4
13. Mutated form of COVID 19 is:
 - a. Capricorn
 - b. Omicron
 - c. Babycorn
 - d. All
14. DNA containing viruses are called:
 - a. Retrovirus
 - b. Ribovirus
 - c. Deoxyvirus
 - d. None
15. Disease causing organisms are called:
 - a. Pathogen
 - b. Chemogen
 - c. Phagocyte
 - d. All
16. Fritsch (1935,44,45) in his book "Structure and Reproduction of algae" classified algae into:
 - a. Eleven classes
 - b. Seven classes
 - c. Three classes
 - d. Ten classes
17. Lichen is an association between:
 - a. Bacteria and virus
 - b. Algae and fungi
 - c. Algae and bacteria
 - d. Fungi and bacteria
18. "Gemma cups" are:
 - a. Asexual bodies
 - b. Both "a" and "c"
 - c. Sexual bodies
 - d. None
19. Bacteria cell wall is made up of:
 - a. Cellulose
 - b. Chitin
 - c. Peptidoglycan
 - d. Dextranb
20. The fungi which derive their food directly from dead organic matter are known as:
 - a. Predators
 - b. Decomposers
 - c. Mutualist
 - d. Parasitic fungi

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(Descriptive)

Time : 2 hr. 30 mins.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

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| 1. Write down Fritsch's classification in detail. | 10 |
| 2. Describe the morphology and anatomy of <i>Selaginella</i> with suitable diagram. | 10 |
| 3. Write a note on general characters of algae and also state its economic importance. | 5+5=10 |
| 4. Write an account of life cycle of <i>Marchantia</i> . | 10 |
| 5. Describe general characters of Bacteria and mention its economic importance. | 5+5=10 |
| 6. Describe the morphology and anatomy of <i>Equisetum</i> with suitable diagram. | 10 |
| 7. Write differences between bacteria and viruses. | 10 |
| 8. Write briefly about classification of lichen. | 10 |

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