

B.Sc. ZOOLOGY
FIRST SEMESTER (REPEAT)
DIVERSITY OF CRYPTOGRAMS
BSB-711
[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

1. Identify the first land plant.
a. Pteridophyta
b. Gymnosperm
c. Bryophyta
d. Thallophyta
2. *Riccia* belongs to which of the following division?
a. Gymnosperm
b. Algae
c. Bryophyta
d. Pteridophyta
3. Protoxylem is seen in:
a. *Equisetum*
b. *Lycopodium*
c. *Riccia*
d. *Selaginella*
4. Heterospores are seen in:
a. *Riccia*
b. *Lycopodium*
c. *Marchantia*
d. *Selaginella*
5. First vascular bundles are seen in:
a. *Lycopodium*
b. *Chlamydomonas*
c. *Riccia*
d. *Puccinia*
6. Green algae belong to group:
a. Chlorophyceae
b. Cyanophyceae
c. Phaeophyceae
d. Euglenophyceae
7. Which of the following group *Ectocarpus* belongs to?
a. Bacillariophyceae
b. Phaeophyceae
c. Chlorophyceae
d. Xanthophyceae
8. Globules and nucleus are found in:
a. *Nostoc*
b. *Volvox*
c. *Spirogyra*
d. *Chara*
9. The colony of *Volvox* is called:
a. Mucilage
b. Flagella
c. Gelatinous sheath
d. Coenobium
10. Nutritionally algae are:
a. Heterotrophs
b. Autotrophs
c. Both "a" and "b"
d. None

11. What causes algae colours?
a. Presence of cellulose
c. Presence of different pigments
b. Presence of protein
d. Presence of starch
12. Algae belongs to kingdom:
a. Protista
c. Animalia
b. Monera
d. Plantae
13. Cyanophyceae are:
a. Eukaryotic
c. Both "a" and "b"
b. Prokaryotic
d. None
14. Conidia are produced by:
a. Fungi
c. Bacteria
b. Virus
d. Protoplasm
15. A lichen used as food is:
a. *Parmelia*
c. *Lobaria*
b. *Usnea*
d. *Lecanora*
16. An example of lichen is:
a. *Agaricus bisporous*
c. *Pleurotus ostreatus*
b. *Cladonia rangiferina*
d. *Ectocarpus fusciculatus*
17. Sex pilus is formed during:
a. Conjugation
c. Transduction
b. Transformation
d. None of these
18. Growth rate of Bacteria is maximum in:
a. Lag phase
c. Stationary phase
b. Log phase
d. Death phase
19. Bacteria involved in natural gas production is:
a. Acetobacter
c. Micrococcus
b. Bacillus
d. Methanobacillus
20. Rod shaped Bacteria are known as:
a. Coccus
c. Bacillus
b. Spirillum
d. Vibrio
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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 about economic importance of Lichen. | 10 |
| 2. Write short notes on:
a) Protonema
b) Prothallus | 5+5=10 |
| 3. Write the general characteristics of Chlorophyceae. | 10 |
| 4. Describe the different types of reproduction occurring in Bacteria. | 10 |
| 5. Draw and describe life cycle of <i>Lycopodium</i> . | 4+6=10 |
| 6. Write about economic importance of Bacteria. | 10 |
| 7. Write about anatomy of <i>Riccia</i> thallus. | 10 |
| 8. Write about general classification of algae. | 10 |

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