

Write the following information in the first page of Answer Script before starting answer

ODD SEMESTER EXAMINATION: 2020-21

Exam ID Number _____

Course _____ Semester _____

Paper Code _____ Paper Title _____

Type of Exam: _____ (Regular/Back/Improvement)

Important Instruction for students:

1. Student should write objective and descriptive answer on plain white paper.
2. Give page number in each page starting from 1st page.
3. After completion of examination, Scan all pages, convert into a single PDF, rename the file with Class Roll No. (2019MBA15) and upload to the Google classroom as attachment.
4. Exam timing from 10am – 1pm (for morning shift).
5. Question Paper will be uploaded before 10 mins from the schedule time.
6. Additional 20 mins time will be given for scanning and uploading the single PDF file.
7. Student will be marked as ABSENT if failed to upload the PDF answer script due to any reason.

B.Sc. BOTANY
FIRST SEMESTER
DIVERSITY OF CRYPTOGRAMS
BSB - 711

Duration : 3 hrs.

Full Marks : 70

(**PART-A: Objective**)

Time : 20 min.

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
 - c. Cyanophyceae
 - c. Phaeophyceae
 - d. Euglenophyceae
7. Which of the following group *Ectocarpus* belongs to
 - a. Bacillariophyceae
 - b. Phaeophyceae
 - c. Chlorophyceae
 - c. 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
 - b. Presence of protein
 - c. Presence of different pigments
 - d. Presence of starch
12. Algae belongs to kingdom
- a. Protista
 - b. Monera
 - c. Animalia
 - d. Plantae
13. Cyanophyceae are
- a. Eukaryotic
 - b. Prokaryotic
 - c. Both "a" and "b"
 - d. None
14. Conidia are produced by
- a. Fungi
 - b. Virus
 - c. Bacteria
 - d. Protoplasm
15. A lichen used as food is
- a. *Parmelia*
 - b. *Usnea*
 - c. *Lobaria*
 - d. *Lecanora*
16. An example of lichen is
- a. *Agaricus bisporous*
 - b. *Cladonia rangiferina*
 - c. *Pleurotus ostreatus*
 - d. *Ectocarpus fasciculatus*
17. Sex pilus is formed during
- a. Conjugation
 - b. Transformation
 - c. Transduction
 - d. None of these
18. Growth rate of Bacteria is maximum in
- a. Lag phase
 - b. Log phase
 - c. Stationary phase
 - d. Death phase
19. Bacteria involved in natural gas production is
- a. *Acetobacter*
 - b. *Bacillus*
 - c. *Micrococcus*
 - d. *Methanobacillus*
20. Rod shaped Bacteria are known as
- a. *Coccus*
 - b. *Spirillum*
 - c. *Bacillus*
 - d. *Vibrio*

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(PART-B : Descriptive)

Time : 2hr 40mins

Marks : 50

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

1. Write about economic importance of Lichen. 10
2. Write short notes on 5+5=10
 - a) Protonema
 - b) Prothallus
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 *Lycopodium*. 4+6=10
6. Write about economic importance of Bacteria. 10
7. Write about anatomy of *Riccia* thallus. 10
8. Write about general classification of algae. 10

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