

B.SC. CHEMISTRY
SEMESTER-1ST (REPEAT)
DIVERSITY OF CRYPTOGRAMS
BSB-711

Duration: 3 Hrs.

Marks: 70

{ Part : A (Objective) = 20 }
{ Part : B (Descriptive) = 50 }

[PART-B:Descriptive]

Duration: 2 Hrs. 40 Mins.

Marks: 50

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

1. Discuss the life history of Ectocarpus with proper diagrams 10
2. Viruses are regarded an intermediate between living and non-living. Discuss 10
3. Discuss the life cycle of *Puccinia* with proper diagram. 10
4. Write the brief note on habitats of algae 10
5. Write general characteristic features of Bryophytes. Discuss the general life cycle of Bryophytes. 5+5=10
6. Discuss in details of the life cycle of Marchantia with proper drawings. 10
7. What is the "heterospory" in pteridophytes. Write briefly about the origin of heterospory in Selaginella. 2+8=10
8. Discuss the classification of pteridophytes. 10

B.SC. CHEMISTRY
SEMESTER-1ST (REPEAT)
DIVERSITY OF CRYPTOGAMS
BSB-711

[PART-A :Objective]

1X20=20

1. Choose the correct answer from the following:

1. Bacterial cell wall is made up of
 - a. Chitin
 - b. Cellulose
 - c. Peptidoglycan
 - d. Dextran
2. Bacterial chromosome is
 - a. Single stranded and circular
 - b. Double stranded and circular
 - c. Single stranded and linear
 - d. Double stranded and linear
3. Viruses are
 - a. Obligate parasites
 - b. Free living
 - c. Both
 - d. None
4. Protein coat of virus is called
 - a. Capsid
 - b. Nucleid
 - c. Capsomere
 - d. Outer envelope
5. Fungi usually store the reserve food material in form of
 - a. Starch
 - b. Lipid
 - c. Glycogen
 - d. Protein
6. Coenobium is found in
 - a. Volvox
 - b. Ectocarpus
 - c. Anabaena
 - d. None
7. Epithemic algae are found in
 - a. Mud
 - b. Stone
 - c. Soil
 - d. Floating
8. Heterocysts are found in
 - a. Chlorophaceae
 - b. Myxophyceae
 - c. Phaeophyceae
 - d. Rhodophyceae
9. Akinets are found in
 - a. Anabaena
 - b. Volvox
 - c. Ectocarpus
 - d. None
10. Which are the most primitive group of algae
 - a. Blue green algae
 - b. Red algae
 - c. Brown algae
 - d. Green algae
11. Ability to fix atmospheric nitrogen is found in
 - a. Leaves of some crop plants
 - b. Chlorella
 - c. Some marine red algae
 - d. Some blue green algae
12. One of the following is present in blue green algae
 - a. Starch
 - b. Cyanophacean granule
 - c. Any polysaccharide
 - d. Floridian starch
13. Which of the following is the amphibian of the plant kingdom
 - a. Pteridophytes
 - b. Bryophytes
 - c. Gymnosperm
 - d. Angiosperm
14. Which group of plant constitute the lower bryophytes
 - a. Liverworts
 - b. Mosses
 - c. Anthoceratles
 - d. Jungermaniales

15. Which of the following is diploid in moss plant

- a. Spore
- b. Leaves
- c. Spore mother cell
- d. Gametes

16. Sporangia bearing leaf is called a

- a. Sorus
- b. Sporophyll
- c. Ramentum
- d. Indusium

17. Megasporophylla of selaginella is comparable to which structure of angiosperms?

- a. Carpel
- b. Ovule
- c. Stamen
- d. Leaf

18. Which of the following group of plants were the first to become sporophytic

- a. Bryophytes
- b. Pteridophytes
- c. Angiosperms
- d. Gymnosperms

19. Circinate vernation is found in

- a. Cycas
- b. Fern
- c. Both a and b
- d. None

20. Fern plants are

- a. Mesophytes
- b. Hydrophytes
- c. Xerophytes
- d. Hygrophytes

==***==

UNIVERSITY OF SCIENCE & TECHNOLOGY, MEGHALAYA



[PART (A) : OBJECTIVE]

Duration : 20 Minutes

Serial no. of the
main Answer sheet

--

Course :

Semester : Roll No :

Enrollment No : Course code :

Course Title :

Session : 2017-18 Date :

.....

Instructions / Guidelines

- The paper contains twenty (20) / ten (10) questions.
- Students shall tick (✓) the correct answer.
- No marks shall be given for overwrite / erasing.
- Students have to submit the Objective Part (Part-A) to the invigilator just after completion of the allotted time from the starting of examination.

Full Marks	Marks Obtained
20	

Scrutinizer's Signature

Examiner's Signature

Invigilator's Signature