

Ramsaday College
Botany (H)
Test Examination 2018
1st year Paper – I
Time – 4 hours Full marks – 100
Module – I

Answer the following questions-

1. a) What is resting spores? 1
b) What is hormocysts? 2
c) What are raphe and pseudoraphe? 2
d) What is eye spot? Write its function? 2
e) What is episome? 2
f) Name the microorganism which helps to producing acetone? 1

2. a) write a note on auxospore formation in Centric diatoms. 5
Or
Describe the ultra-structure of algal flagella 5
b) Describe the ultrastructure and function of endospore. 3+2
Or
Write a brief idea about the production of amylase and protease and their industrial uses. 5

3. a) What is oogamous type of reproduction? What is isomorphic alternation of generation? Describe it with suitable example. 5+3+7
Or
What is phycocolloid? Give some examples of phycocolloids? Write a note on economic importance of algae in different commercial area. 3+2+4+3+3
b) Describe the ultrastructure of flagella and pilli in bacteria with suitable sketches. Differentiate between the cell wall of gram positive and gram negative bacteria. 5+5+5
Or
How many bacterial groups are found? Characterized them with suitable example? What is plasmid and cosmid? Write the significance of lysogeny. 3+6+3+3

P.T.O

Module – II

4. a) What is sporophore? 1
b) What is prosorus? 1
c) Distinguish between symptoms and syndromes. 2
d) What is trap crop? Give an example. 2
e) What is polycyclic plant disease? 2
f) What is antibiosis? 2
5. a) Write a note on ecological and economic importance of Lichen. 5
- Or
- Write a note on uses of fungi in pharmaceutical industries. 5
- b) Briefly describe role of systematic fungicide in plant disease control mechanism. 5
- Or
- What is quarantine? How can quarantine control the plant diseases? 5
6. a) Describe the classification of fungus according to Anisworth, 1973 with respective examples. 5+5+5
- Or
- Write the role of Mycorrhiza in agriculture and forestry. 5
Write a note on industrial use of fungi in different purpose. 5
What is mycoprotein? Write the sources of mycoprotein. 5
- b) Describe the mechanism of pre-penetration, penetration and post- penetration of a pathogen with suitable example. Describe the rules of Koch's postulates. 5+5+5
- Or
- What is integrated pest management? How can biologically control the different plant diseases? Name the causal organism of bacterial blight of rice and black stem rust of wheat? Describe the disease cycle of black stem rust of wheat. 2+6+2+5