

# Botany (Theory) (Paper-I)

Attempt FIVE Questions in all. Section-A is Compulsory. Select FOUR Questions from Section-B.

## SECTION-A

1- Give short answers to the following:-

8

- i) Define Heterogamy.
- ii) What is Protostele?
- iii) What is Frustule?
- iv) What is Protonema?
- v) Define Apothecium.
- vi) What are Rhizophores?
- vii) Define Spur.
- viii) What are Angiosperms?

## SECTION-B

- 2- a) What are Flagella? Classify Bacteria on the basis of Flagella. 4  
 b) Give the characteristic features of Viruses. 3.5
- 3- a) Give an illustrated account of Sexual Reproduction in Volvox. 4  
 b) Write note on Vegetative Structure of Pinnularia. 3.5
- 4- a) Describe Fruiting Bodies of Ascomycetes. 4  
 b) Describe Basidiocarp of Agaricus. 3.5
- 5- a) Describe internal structure of Thallus of Lichens. 3.5  
 b) Describe the structure of sporopyte of polytrichum. 4
- 6- a) Describe the gametophyte of Anthoceros. 4  
 b) Give an account of structure of Porella. 3.5
- 7- a) Write short note of method of Fossilization. 4  
 b) Describe the anatomy of Rhizome of Marsilea. 3.5
- 8- a) Describe the structure of Gametophyte of Equisetum. 4  
 b) Give an account of Anatomy of Stem of Ephedra. 3.5
- 9- a) Describe the structure of Female Cone of Pinus. 4  
 b) Compare the structures of Ovules of Cycas and Pinus. 3.5