

First Semester Examination-2017**M.Sc. BOTANY**

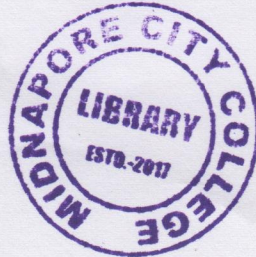
Paper Code: BOT-103, Mycology & Plant Pathology

Full Marks : 40

Time: 2 Hours

Write the answer for each unit in separate sheet**Unit -I****Mycology**

- 1. Answer any four question of the following: 1×4=4**
- What is puffing?
 - What is an operculum?
 - Define macro cyclic life cycle.
 - Which fungus is called hallucinogenic fungus and why?
 - What is tetrapolar heterothallism?
 - What is the active component of fungal cell wall?
 - Name one edible fungi?
- 2. Answer any two question of the following: 3×2=6**
- Development and type of ascocarps
 - Reproduction in yeast
 - What do you mean by clump formation
- 3. Answer any one question of the following: 10×1=10**
- Give the outline classification of fungi. What are the basic features of fungi?
What do you mean by heterotrichous life cycle? 4+4+2
 - What is the basic feature of ascomycetes. Describe the briefly the ascospore formation and dispersal procedure of ascomycetes. Name a disease forming ascomycetes. 4+4+2



(Turn Over)

Unit -II

Plant Pathology

- 1. Answer any four question of the following:** **1×4=4**
- a) In which year was the plant quarantine laws first enacted?
 - b) What is atrophy?
 - c) Define infection peg.
 - d) What is PR-Protein?
 - e) What is inoculums potential?
 - f) What do you mean by 'symptoms'?
 - g) What do you mean by disease triangle?
- 2. Write briefly short note any two:** **3×2=6**
- a) Disease forecasting
 - b) Aflatoxin
 - c) Downy mildew and powdery mildew
- 3. Answer any one of the following:** **10×1=10**
- a) What is the mechanism of penetration at the time of host infection? What is the role of growth regulation for pathogenic development in the host body?
What is the causal organism of loose smut of wheat? **4+4+2**
 - b) What is the role of environment in disease development? What way you will control the plant disease forecasting? **5+5**

