Reg. No.		

MANIPAL ACADEMY OF HIGHER EDUCATION FOURTH SEMESTER M.Sc. (MEDICAL MICROBIOLOGY) DEGREE EXAMINATION – JULY 2021

SUBJECT: MYCOLOGY + MOLECULAR TECHNIQUES (MIC 702)

Monday, July 12, 2021

Time: 10:00 - 12:30 Hrs.

Maximum Marks: 50

- Answer ALL the questions.

- 1. Enumerate opportunistic fungi. Describe the pathogenesis, clinical features and laboratory diagnosis of Candidiasis.

(2+2+2+4 = 10 marks)

2. Write in detail about the principle, methodology and quantification of DNA by real time polymerase chain reaction. Add a note on its applications in diagnostic microbiology.

(2+2+3+3 = 10 marks)

- 3. Write short notes on:
- 3A. Laboratory diagnosis of Dermatophytosis
- 3B. Histoplasma capsulatum
- 3C. Sporotrichosis
- 3D. Rhinosporidiosis
- 3E. Southern blot technique and its applications
- 3F. Cloning vectors

 $(5 \text{ marks} \times 6 = 30 \text{ marks})$