

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER M.Sc. (MEDICAL MICROBIOLOGY) DEGREE EXAMINATION – AUGUST 2020
SUBJECT: MYCOLOGY + MOLECULAR TECHNIQUES (MIC 702)

Monday, August 03, 2020

Time: 14:00 – 16:30 Hrs.

Maximum Marks: 50

- ✍ Answer ALL the questions.
- ✍ Draw diagrams wherever necessary.

✍ Essay questions :

1. Describe the pathogenesis and laboratory diagnosis of Histoplasmosis.
(5+5 = 10 marks)
2. What is DNA sequencing? With the help of neat labelled diagram explain different methods of DNA sequencing. Add a note on application of DNA sequencing.
(3+5+2 = 10 marks)
3. Write short notes on:
 - 3A. Dermatophytes
 - 3B. *Pneumocystis jiroveci*
 - 3C. Eumycetoma
 - 3D. Mycotoxins
 - 3E. Explain the different stages in a PCR cycle.
 - 3F. What is flow cytometry? How is it used in cell cycle analysis and DNA content analysis?
(5 marks × 6 = 30 marks)

