



**MANIPAL COLLEGE
OF PHARMACEUTICAL SCIENCES**
MANIPAL
A constituent institution of Manipal University

**M Pharm – Common Paper
M Pharm Semester -I End-Semester Make up Examination June 2021**

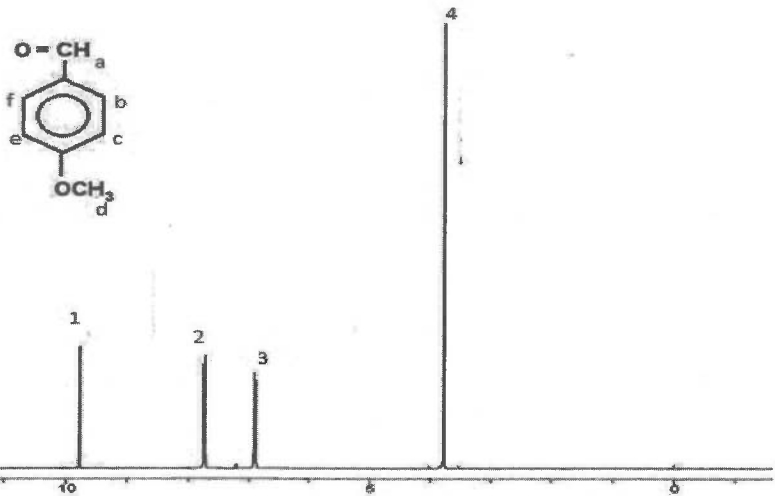
Course Code PQA-MQA 101T Course Title: Modern Pharmaceutical Analytical Techniques

Date: 28.06.2021

Duration: - 2 hr

Max. Marks: 50

Instructions: Answer ALL questions.

Answer the following (Section -A) marks	10 marks × 2 = 20
1. Explain the quantitative applications of UV Visible spectroscopy.	
2. Assign the protons to the peaks. 	
Section -B	5 marks × 6 = 30 marks
3. With the help of a neat labelled diagram, explain the working of a thermobalance.	
4. List and explain the working of any one each bulk property detector for HPLC and GC.	
5. Explain the functions mass spectrometer	
6. Explain the applications of paper electrophoresis in brief.	
7. Differentiate ELISA and RIA.	
8. How equivalence point is located in potentiometric titrations?	