Sl.No: M22196 Course Code: 2910414

VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM (Deemed to be University)

B.PHARM. DEGREE EXAMINATION – February 2020 Fourth Year

MODERN METHODS OF PHARMACEUTICAL ANALYSIS

Time: Three hours

Maximum: 70 marks

I. Write essays on any **TWO** questions:

 $(2 \times 15 = 30)$

- 1. a) Principles of UV spectroscopy.
 - b) Factors affecting fluorescence.
- 2. a) Principle of mass spectroscopy.
 - b)Instrumentation of mass spectrometer.
- 3. a) HPLC instrumentation.
 - b) Applications of HPLC.
- II. Write short essays on any SIX questions:

 $(6 \times 5 = 30)$

- 4. Detectors in spectroscopy.
- 5. Paper chromatography.
- 6. Flame emission spectroscopy.
- 7. X ray diffraction applications.
- 8. MALDI TOF.
- 9. Applications of IR spectroscopy.
- 10. Theory of Nephelometry.
- 11. Factors affecting chromatogram.
- III. Write short notes on any **FIVE** questions:

 $(5 \times 2 = 10)$

- 12. Auxochrome.
- 13. Mass fragmentation.
- 14. Photodiode.
- 15. Advantage of UPLC.
- 16. Disadvantages of Gas chromatography.
- 17. Sources of Radiation.
