Sl.No. M22099 Course Code:3200302

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

Pharm.D DEGREE EXAMINATION - February 2020 Third Year

PHARMACEUTICAL ANALYSIS

Time: Three hours	Maximum: 70 marks
I. Write essays on any TWO questions:	$(2 \times 15 = 30)$
 a) Explain the different types of electronic transitions b) Describe the working of photomultiplier tube. a) Write the preparation of TLC plate and developed TLC. b) Explain the theory of gel electrophoresis. a) Write the different types of conductometric titra 	(5) ment techniques in (5) (5)
applications. b) Describe the AES.	(10) (5)
II. Write short answers on any SIX questions:	$(6 \times 5 = 30)$
 4. What is lumineansence and its types? 5. Explain principle and factors affecting polarography. 6. Give an account of stationary phase and mobile phase used in GC. 7. Validation technique of analytical procedure. 8. Explain fragmentation technique procedure. 9. Define the type of column used in HPLC. 10. What is group frequency and finger print region in IR? 11. Explain chemical shift. 	
III. Write short notes on any FIVE question:	$(5 \times 2 = 10)$
12. Batchochromic shift.13. Beer- Lambert's law.14. Polarographic maxima.15. Dead stop end point.16. Limit quanitation.17. Coupling constant.	
