

www.FirstRanker.com

www.FirstRanker.com

Max.Marks:70

Code No: PH302 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD Pharm.D III Year Supplementary Examinations, October/November - 2019 PHARMACEUTICAL ANALYSIS

Time: 3hours

Answer any five questions All questions carry equal marks

1.a) b)	Write notes on quality control charts. Write the concept of quality assurance.	[5 . 4 . 5]
c)	Write the benefits of total quality management.	[5+4+5]
2.a)	Write the principle of thin layer chromatography (TLC) and add note on eragents in TLC .	developing
b)	Write the principle and applications of paper chromatography.	[7+7]
3.a)	Explain the following:	
b)	i) HETP ii) Normal phase chromatographyWrite in detail about the theory and instrumentation of GLC.	[6+8]
4.a)	Write about the following: i) Principle and applications of HPTLC ii) Ion exchange chromatography.	
b)	Write the instrumentation and applications of HPLC.	[8+6]
5.a) b)	Write the construction and working of glass membrane electrode. Write about the following:	
- /	i) Dropping mercury electrode ii) Principle of conductometric titrations.	[7+7]
6.a)	Write the theory involved and applications of amperometric titrations.	
b)	Explain the principle and applications of affinity chromatography.	[7+7]
7.a)	Explain in detail about Beer-Lambert law and its limitations.	
b)	Write about the following:	
	i) Monochromators ii) Pyroelcectric detector.	[8+6]
8.a)	Write about the theoretical principle and applications of atomic absorption spectrometry.	
b)	Write short notes on optical rotary dispersion.	

c) Write the principle and any two applications of mass spectrometry. [6+4+4]

---00000----