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Seat No.:	Enrolment No.
Seat 110	Emonited 100

Subject Code: 240004		004 Date: 06/1	Date: 06/12/2018	
Time: 02:30 P. Instructions: 1. Atten 2. Make	M T(npt any Suital	rmaceutical Analysis - II O 05:30 PM Total Man of five questions. ble assumptions wherever necessary. ne right indicate full marks.	rks: 80	
Q.	(b) (c)	Explain the following terms in brief: 1. Validation 2. Accuracy 3. Signal to Noise ratio 4. Cell constant 5. Supporting analyte 6. Cell potential Write detailed note on Kohlrausch's law along with applications. Explain applications of potentiometry in pharmaceuticals. Enlist the methods to detect the end point in potentiometry.	06 05 05	
Q.	2 (a) (b)	Write the advantages and disadvantages of Instrumental methods of Analysis. Write brief note on different types of instrumental noise. Differentiate the following pairs: 1. Stationary Phase and Mobile phase	06 05	
	(c)	Equivalent conductance and specific conductanceExplain Van Deemter equation. Discuss the factors affecting chromatographic peak broadening.	05	
Q.	(a) (b) (c)	Write note on classification of chromatographic techniques. Enlist the theories of chromatography. Describe any one in detail. Write a short note on Amperometric titrations. What is standard electrode potential? Describe in detail classification of electroanlaytical methods.	06 05 05	
Q.	4 (a) (b) (c)	Discuss in detail different components of polarogram. Write detailed note on dropping mercury electrode with well labeled diagram. Describe the factors affecting diffusion current in detail.	06 05 05	
Q.	5 (a) (b) (c)	What is calorimetry? Write note on principle and applications of DSC in detail. Write detailed note on instrumentation of polarimetry. Define optical activity and specific rotation. Explain in detail about qualitative and quantitative applications of polarimetry.	06 05 05	
Q.	6 (a) (b) (c)	What is indicator and reference electrode?. Describe construction, working, advantages, disadvantages of glass electrode in detail. Write a short note on Thin layer chromatography. Define the following terms 1. Stripping Voltametry 2. Asymmetric factor 3. Resolution 1. Retention time 5. Conductance	06 05 05	
Q.	7 (a) (b) (c)	Describe principle, advantages, disadvantages, applications of paper chromatography alongwith its various development techniques. Describe the factors affecting conductance in detail. Discuss in detail principle, instrumentation and applications of thermogravimetric	06 05 05	