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B.Pharm Fourth Semester (C.B.S.) Examination

PHARMACEUTICAL ANALYSIS—II (Electroanalytical and Physical Methods)

Paper-3 (4T3)

Time : Three Hours]			ull Marks: 80
N.B	i. :—	- (1) Question No. 1 is compulsory.	
		Solve any FOUR questions from the remaining.	
		 Draw neat labeled diagram wherever necessary. 	
		(4) Use of electronic calculator is permitted.	
		 Assume suitable data wherever necessary. 	
1.	Solv	ve any five of the following:	
	(a)	Write the factors affecting refractive index.	
	(b)	Define:	
		(i) Specific resistance	
		(ii) Equivalent conductance.	
	(c)	Give the advantages and limitations of conductometry.	
	(d)	Name the electrodes used in potentiometry.	
	(e)	Write about TG curve.	
	(f)	Describe Illkovic equation in detail.	
	(g)	What is oscillometry ?	4×5
2.	Def	fine conductance. Give the principle and different types of acid-base conductome	
			15
3.		Discuss various end point determination methods in potentiometry.	8
		Give the advantages of DSC over DTA.	7
4.		Discuss the construction and working of Abbe's refractometer.	8
		Write the methods of detecting end point in amperometric titrations.	7
5.	(a)	Explain different types of electrodes used in polarography with types, advantages and	_
			10
_	-	Explain recent advantages in polarography.	5
6.		e principle, instrumentation and applications of Differential Thermal Analysis.	15
7.		ite short notes on (any three) :	
	(i)	Derivative polarography	
		Electrogravimetry	
	-	Thermal Analysis	
		Applications of DSC.	15
N.15.75.	6 600	19	

