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B.Pharm. Semester—IV (C.B.S.) Examination PHARMACEUTICAL ANALYSIS—II

(Electroanalytical and Physical Methods)

Paper-3

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Time : Three Hours]			s] [?	Maximum Marks: 80
	N.B	.:-(1)	Question No. 1 is compulsory.	
		(2)	Solve any FOUR questions from remaining.	
		(3)	Draw neat labelled diagram wherever necessary.	
1.	. Solve any five of the following:			
	(a)	Draw nea	at and well labelled diagram of Dropping Mercury Electrode.	
	(b)	Differenti	ate DTA and DSC.	
	(c)	Write adv	vantages and disadvantages of amperometry.	
	(d)	Define sp current.	pecific conductance, equivalent conductance, standard electrode	potential and residual
	(e)	Mention 1	pharmaceutical applications of polarimetry.	
	(f)	What do	you mean by dead stop titrations ?	
	(g)	What are	various types of thermogravimetry ?	20
2.	(a)	What is relectrode	reference and indicator electrode? Enlist them. Explain any one re	eference and indicator 7
	(b)	Describe	various methods to locate end point in potentiometric titrations.	. 8
3.	(a)	Define re	efractive index. Draw labelled sketch of Abbe's refractometer. etry.	Give applications of 7
	(b)	Write prin	nciple and instrumentation of polarimetry.	8
4.	Wha	What are conductometric titrations ? Give principle, general procedure and advantages of it. Discuss		
	citin	g suitable	example, various types of acid-base type of conductometric titr	ation. 15
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- (a) Write principle, instrumentation and pharmaceutical applications of DSC or DTA. 5.
 - (b) Define thermogravimetry. Write with suitable examples, various factors affecting TG curves. 8
- Discuss theory of polarography. Give Ilkovic equation and explain the various terms involved in it. 6.
- Write short notes on any three of the following :
 - (a) Coulometry
 - (b) Electrogravimetry
 - (c) Amperometric titrations
 - (d) Chronopotentiometry

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