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NTK/KW/15 - 6989

Fourth Semester Examination for the Degree of Bachelor of Pharmacy

PHARMACEUTICAL ANALYSIS - II

Paper - 4T3

Time: Three Hours]

[Max. Marks: 80

- N. B. : (1) Question No. 1 is Compulsory.
 - (2) Solve any four questions from the remaining.
 - Draw neat labeled diagram wherever necessary.
 - (4) Use of electronic calculator is permitted.
- Solve any five questions of the following :—
 - (a) Describe the various factors effecting TG curve.
 - (b) Define specific and molar refraction.
 - (c) Write the methods for detecting end point in potentiometric titration.
 - (d) Write about derivative and pulse polarography.
 - (e) Give the applications of differential scanning calorimetry.
 - (f) Write a note lon electrogravimetry.
 - (g) Explain in brief about construction and working of Abbe's refractometer. 4x5=20
- Discuss in brief about theory, applications and limitations of conductometric titrations.

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Contd.





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3.	(a)	Write	the	theory	of	polorography	and	give	the
		signif	icano	ce of III	kov	ic equation.			8

- (b) Write the principle and applications of amperometric titrations. 7
- (a) Describe in detail reference and indicator electrodes used in potentiometry.
 - (b) What is the theory of differential thermal analysis? Give its application.
- Describe in detail instrumentation and applications of polarimetry. Give the factors affecting angle of rotation.

 Define thermogravimetry. Explain various factors affecting TG curves with suitable example. Mention application of thermogravimetry.

- 7. Write short notes on any three of the following :-
 - (a) Standard electrode potential.
 - (b) Recent advantages in polarography.
 - (c) Pharmaceutical applications of DTA and DSC.
 - (d) Karl Fischer titration. 3x5=15

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