S.Y.B.PHARM. SEMESTER-IV (2011 COURSE): SUMMER - 2018 SUBJECT: PHARMACEUTICAL ANALYSIS - II

Day Date	:	Tuesday 24/04/2018 S-2018-3958	Time: 02.00 PM TO 05.00 PM Max. Marks: 80	I
$\frac{Batto}{N.B.:}$	<u> </u>			
	1)	Q.No.1 and Q.No.5 are COMPULSORY. Out of the remaining questions		
		attempt ANY TWO questions from each section.		
	2)	Answers to both the sections should be written in SEPARATE answer books.		
	3) Figures to the right indicate FULL marks.			
SECTION – I				
Q.1		Attempt ANY FIVE of the following:		
	a)	State Ilkovic equation.		
	b)	How pH meters are calibrated, write composition of buffers?		
	c) d)	State merits and demerits of instrumental analysis. Define Migration current and diffusion current.		
	u) e)	Classify indicator electrodes used in potentiometry.		
	f)	Why nitrogen gas is bubbled in polarographic apparatus?		
Q.2	a)	What is half wave potential? How it is calcula diffusion current.	ited? Explain factors affecting	[08]
	b)	Describe Polarographic apparatus.		[07]
	υ,	Desertoe Folarograpine apparatus.		[0/]
Q.3	a)	Explain theory, principle involved in potention	netry. Discuss instrumentation	[08]
		in detail.		
	b)	Discuss about ion selective electrodes used in p	otentiometry.	[07]
Q.4		Write short notes on ANY THREE of the following:		[15]
ν	a)			
	b)	Rotating platinum electrode		
	c)	Potentiometric titrations		
	d)	Applications of Amperometry		
	SECTION – II			
Q.5		Attempt ANY FIVE of the following:		[10]
	a)	Give significance of inorganic precipitants in gravimetry.		
	b)	Write about cell constant and its significance.		
	c)	Define: i) Plane polarized light ii) Circularly polarized light		
	d)	Explain the terms specific refraction and molar refraction.		
	e) f)	Explain factors affecting refractive index. Write about cotton effect.		
	1)	write about cotton effect.		
Q.6	a)	State principle involved in measurement ang	gle of refraction and give its	[08]
		application.		
	b)	Explain the theory of optical activity. Discuss	about polarimeters.	[07]
Q. 7	a)	Explain principle involved in gravimetric and	alysis. Discuss various steps	[08]
~.	,	involved in gravimetric analysis.		[]
	b)	Discuss in detail conductometric titration curve	S.	[07]
$\mathbf{v}_{\mathbf{o}}$		Write short notes on ANY TUDEE of the follo	avina.	[15]
Q.8	a)	Write short notes on ANY THREE of the following: [15] High frequency titration		[13]
	b)	Dipping refractometer and Pulfrich refractometer		
	c)	Circular Dichroism		
	ď)	Occlusion and Mixed crystal formation		
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