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Total Number of Pages: 02

M.PHARM M PH 2C.2

2nd Sem Regular / Back Examination – 2015-16 ADVANCED PHARMACEUTICAL ANALYSIS-I

Q.CODE: W993 Time: 3 Hours Max marks: 70

Answer Question No.1 which is compulsory and any five from the rest. The figures in the right hand margin indicate marks.

Q1	a)	Answer the following questions: What are the Benefits of SPE over LLE?	(2 x10)
	b)	What is glass transition temperature and how will you determine it by DSC technique?	
	c)	What is initial start up transient?	
	d)	What is Doppler broadening?	
	e)	Write down the major incompatibilities between LC and MS.	
	f)	Explain about FAB technique.	
	g)	Applications of PCS.	
	h)	What is MAGIC?	
	i)	Define exclusion limit, inclusion limit and selective permeation region.	
	j)	Which ionization technique you will use for polar, non-volatile and thermally labile analytes?	
Q2	a) b)	Explain about the different types of sample preparation techniques used in Bioanalysis. Sample preparation techniques for capillary electrophoresis.	(6) (4)
Q3		Explain the various applications of thermogravimetry.	(10)
Q4		Explain the principle, instrumentation and applications of ICPAES	(10)
Q5	a) b)	Write brief notes on the following Stationary phase of size exclusion chromatography. EGA	(4) (6)

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Q6 a b	,	(5) (5)
Q7	Explain the different factors affecting the DTA curve.	(10)
Q8	Explain in detail about Graphite Furnace AAS and hydride generation AAS	(10)