VII-S-B.Pharm.-Pap-BP701T-(IMA)

2021

Time: As in Programme

Full Marks: 75

The figures in the right-hand margin indicate arks.

Answer all questions.

1.

Ansv	ver all questions.	
a)	Define frequency and transmittance.	[2]
b)	What is lambda Max?	[2]
c)	What are difference applications of fluoring	netry?
		[2]
d)	What is wave number?	[2]
e)	What are the requirements of IR spectroscopy	
		[2]
f)	What are the functions of flame in flame en	nission
	spectroscopy?	[2]
g)	What is the basic principle of atomic absorbance	orption
	spectroscopy?	[2]
h)	What is signal to noise ratio?	[2]
i)	What is gradient elution?	[2]
j)	What is paper adsorption chromatography?	
		[2]

(Turn Over)

2. Answer any two out of three. Explain different types of electrophoresis and mention their applications. [10] Explain the principle column used in gas ii. chromatography and applications of GC. [10] iii. Explain principle, instrumentation and application of UV-visible spectroscopy. [10] 3. Answer any seven out of nine. What are different factors affecting fluorescence a. intensity. [5] b. Give the principle of IR spectroscopy. [5] C. Give the classification of various vibration modes in polyatomic molecule. [5] Mention various limitations of flame photometry. d. [5] Why do too high or too low temperatures are not e. favourable for atomic absorption. [5] f. nephelometry, Define mention various applications. [5] What is activation of adsorbents? g. [5] h. What is edge effect, Explain? [5] What is derivatisation in HPLC?

[5]

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