(Set-1)

M.SC-2nd (IC) Analytical Chemistry

Full Marks: 70

Time: 3 hours

Answer all questions from Group-A and any five questions from Group-B

The figures in the right-hand margin indicate marks

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GROUP-A

1. Answer all questions	1.	Answer	all	questions	
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 2×10

- (i) What do you mean by significant figures?
 - (ii) Write the criteria of good sampling?
- (iii) Explain the term mean deviation?
 - (iv) What do you mean by pH1/2?
- (v) What do you mean by ion exchange resin?
 - (vi) Name the factors affecting ion-exchange equilibria.

(Turn Over)

	(vii) What is synergic extraction?	
	(viii) What is molar absorptivity. How it varies with wavelength?	
	(ix) What do you mean by visual colorimetry?	
	(x) What is simultaneous spectrophotometry? GROUP—B	
	Answer any five questions:	
2.		
3.	What do you mean by precision and accuracy. How does the accuracy expressed and discuss different methods to determine accuracy?	
4.		1(
5.	How can you synthesize Ion exchange resins write the characteristics of the regin? How these resins are used for the separation of Lanthanides?	1(
	사람이 가게 되는 것이 되는 것이 되는 것이 되는 것이 나를 가장하게 되었다. 그런 사람들이 되는 것이 없는 것이 없다.	

0.	spectrophotometer?	of 10
7.	Discuss on:	5 × 2
. ".	(i) Differential spectrophotometry	
	(ii) Reflectance spectrophotometry.	
8.	Write notes on:	5 × 2
	(i) Applications of solvent extraction	Amerika Amerika
	(ii) Photometric titration.	
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