93566

Answer all the questions.

Manual M-1076

SI.No.

1.

Total No. of Pages: 2

 $[4 \times 1 = 4]$

P.T.O.

V Semester III B.Sc. Examination, March/April - 2021 (Scheme : CBCS) CHEMISTRY

Basic Analytical Chemistry (SEC)

Time: 2 Hours

Instruction: Write balanced chemical equations and neat diagrams wherever necessary.

PART - A

	a)	Define significant figures.		
	b)	Write the definition of pure water.		
	c)	The adulterated coffee gives reddish colour when shaking with Na OH solution. Name the adulterant.		
	d)	If a solute travells with the solvent front to the same distance, what is R, value of that solute?	the	
		PART - B		
Ans	swer any four questions. $[4 \times 9 = 36]$			
2.	a)	Explain the role of analytical chemistry as interdisciplinary subject.	[4]	
	b)	Discuss the determinant errors.	[3]	
	c)	Differentiate between accuracy and precision.	[2]	
3.	a)	Write a note on composition of soil.	[3]	
	b) Explain the principle of estimation of Ca ²⁺ and Mg ²⁺ by comp titration.			
	c)	Define acidity of water. How do you determine the acidity of water?	[3] [3]	
4.	a)	Discuss the principle of determination of dissolved oxygen (DO) water sample.	of a [3]	
	b)	Write a note on water purification methods.	[3]	
	c)	Illustrate the analysis of colouring agent with an example.	[3]	

93566	M-1076

A)	Discuss the procedure to identify adulterants in chilly powder.	[3]
b) Define chromatography. Explain the principle of chron		
,	separation.	[4]
c)	What are the advantages of TLC.	[2]
a)	How do you separate Fe3+ and A13+ mixture by paper chromatog	raphy.
•) ;)	Define chromatography. Explain the principle of chromatography. Separation. What are the advantages of TLC.

- - Define ion exchange capacity of a resin. Write the batch procedure for b) [3] the determination of ion exchange capacity.
 - [3] What is c)
 - Stationary phase i)
 - Mobile phase ii)
 - Column chromatography.



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