SVIS-N-308-A-18 B.Sc. VIth Semester Degree Examination Chemistry paper-6.1 (New)

Time: 3 Hours

Maximum Marks: 80

Instructions to candidates:

Answer all the three sections

Section-A

L Answer the following Questions

 $(15 \times 1 = 15)$

- 1) What is Coefficient Variation
- 2) What is absolute error
- 3) What is post precipitation
- 4) What is gravimetric analysis
- 5) What is accuracy
- 6) Write the structure of quinine
- 7) What are terpenes
- 8) What are proteins
- 9) What are Co-enzymes
- 10) Write the structure of menthol
- 11) What are anti stoke lines
- 12) What is Radiolysis
- 13) What is meant by selection rule
- 14) What is meant by zero point energy of a diatomic S H O of vibrational frequency
- 15) What is meant by electromagnetic radiation

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Section-B

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I.	Answer any five of the following questions (5×				$(5\times 5=25)$
	16)	6) Mention different methods involved in reporting analytical data			
	17)) What are ageing factors which affect the gravimetric precipitation			
	18)	3) Write the synthesis of Nicotine			
	19)	Classify proteins on composition and molecular shape			
	20)	Discuss the Rotational Spectra of a rigid diatomic molecule			
	21)	21) Write a note on Radiolysis of water vapor			
	22)	Writ	a note on concept of	f Polarizability	
				Section-C	
П.	Ans	wer ar	four of the followin	ng questions	(4× 10= 40)
	23)	a)	Describe the method	ls for minimization of errors	(6)
-		b)	Discuss the condition	ns for precipitation	(4)
	24) a) What are the general precautions involved in Gravimetric analysis			analysis (6)	
٠,	25)	b) Give the differences between determinate and indeterminate errors.a) Elucidate the structure of eitral		nate errors. (4)	
,		b)	Write the synthesis a	nd importance of Adrenaline	(4)
	26)	6) a) Write a note on			
) Hofmann Exhau	ustive methylation	
			i) Classification of	of hormones	(6)
•		b)	Write the biological i	importance of vitamin-A and vitamin	n-C ₁ (4)
	27)	a) Discuss IR spectrum its energy levels and selection rule of simple Harmo oscillator		of simple Harmonic (6)	
		b)	Write a note on ceric	sulphate dosimeter	(4)
	28)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			(6)
	·	b)	Write a note on degre	ee of freedom	(4)
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