

Roll No. _____

[Total No. of Pages : 3

SVS-N 316 B-16

B.Sc. Vth Semester Degree Examination

Chemistry

Paper -5.2

(New)

Time : 3 Hours

Maximum Marks : 80

Instructions to candidates :

Answer all the sections A,B& C.

Section - A

I Answer all the following questions.

(15×1=15)

- 1) What are essential elements?
- 2) Write the structure of ClF_3
- 3) What are pseudohalogens?
- 4) What are micro elements?
- 5) Give any two uses of IF_5
- 6) What is epimerisation
- 7) What is meant by saponification of oils and fats.
- 8) What are dyes?
- 9) What are active methylene compounds?
- 10) Write the structure of sucrose
- 11) What is the effect of concentration on conductance in electrolytic conductor?
- 12) Define transport number
- 13) What are non-polar molecule.

- 14) What is molar - Polarization?
- 15) Give the relation between ionic conductance and ionic mobility.

Section - B

II. Answer any Five of the following: (5×5=25)

- 16) Describe the important characteristics of pseudo halogens.
- 17) What is the role Na^+, K^+ ions in biological system? Explain.
- 18) How do you convert the following?
 - i) Glucose to Fructose.
 - ii) Fructose to Glucose.
- 19) Explain the Manufacture of soap by hydrolyser process
- 20) Explain the synthesis of ethyl acetoacetate with mechanism.
- 21) Explain the principle of conductivity bridge and how do you determine equivalent conductance of electrolyte using it
- 22) What is meant by bond polarity? Explain it with example of hydroacids of halogens.

Section - C

III. Answer any Four questions (4×10=40)

- 23) a) Discuss the properties of halogen with respect to ionization energy and oxidation state 6
 - b) Explain the biological functions of Hemoglobin. 4
- 24) a) Write note on AB_3 and AB_5 type of inter halogen compounds 6
 - b) Explain the preparation and properties of cyanogen. 4
- 25) a) Explain synthesis and uses of nylon and polyethylene 6
 - b) Explain Keto-enol tautomerism in ethyl acetoacetate. 4
- 26) a) Give the synthesis of following 6
 - 1) Methyl orange
 - 2) Phenolphthalein
 - b) Explain the Killian's fischer synthesis of chain lengthening of aldoses 4

- 27) a) Derive - classius - mossotti equation 6
b) Explain the mechanism of conductor in metallic and electrolytic conductor. 4
- 28) a) State and explain Kohlrausch Law? Write any one application. 6
b) Explain the following
1. Orientation Polarization
2. Induced Polarization 4
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