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The H. N. S. B. Ltd. Science College, Himatnagar
Internal Examination October - 2016

B.Sc. Sem.-3

Subject: Chemistry

Date: 04/10/2016

Marks: 40

Paper CC-CH-302

Time: 1½ hr

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- Q-1 A) Give any two answer of the Following** **10**
- 1) Explain the Linde method for the separation of noble gases
 - 2) Explain Molecular Orbital theory for XeF_2
 - 3) Explain the Occurance of noble gases.
- B) Give any two answer of the Following** **03**
- 1) Write an electron configuration of Redon
 - 2) How much amount of noble gases present in an atmosphere?
 - 3) How many π -bond are present in XeO_3 ?
- Q-2 A) Give any two answer of the Following** **07**
- 1) Explain Nitration of Nitrobenzene with Mechanism.
 - 2) Explain Halogenation of Toluene with Mechanism.
 - 3) Explain Sulphonation of Benzene with Mechanism.
- B) Give answer any two of the Following** **07**
- 1) Write a short note on iso electric point of amino acid.
 - 2) Explain Sanzer's DNFB method for the determination of N- terminal residue of amino acid.
 - 3) Write Gabriel Synthesis for amino acid.
- Q-3 A) Give any two answer of the Following** **10**
- 1) Explain Experimental method of Ostwald viscometer for viscosity.
 - 2) Explain Experimental method of Abb's Refractometer for refractive index.
 - 3) Write a short note: Parachor.
- B) Answer any two of the following** **03**
- 1) Give a definition of Surface Tension
 - 2) What is vapour pressure?
 - 3) Give a unit of Viscosity