



A Charutar Vidya Mandal's Institution
V.P. & R.P.T.P. SCIENCE COLLEGE (AUTONOMOUS)
(Grant-in-Aid)
Affiliated to Sardar Patel University
VALLABH VIDYANAGAR-388120



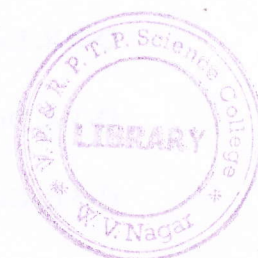
Bachelor of Science (Semester 1) Internal Examination - 2024
US01MICHE01: Basic Chemistry-I

Date: 4th October 2024, Friday
Time: 11:00 AM to 12:00 PM

Total marks: 20

Q-1 Choose the most appropriate option. (06 Marks)

- Which of the following alkanes will have the highest boiling point?
 - n-butane
 - iso-pentane
 - n-octane
 - neo-pentane
- Organic molecules contains _____ bond.
 - Covalent
 - Co-ordinate covalent
 - Ionic
 - None of these
- Which of the following intermediate involves in E2 reaction mechanism?
 - Carbocation
 - Carbanion
 - Free radical
 - Octavalent
- _____ is not gas at room temperature?
 - Bromine
 - Hydrogen
 - Neon
 - Nitrogen
- The Electron affinity of _____ elements is either close to zero.
 - Alkaline earth
 - Alkali metals
 - Halogen
 - Nobel gas
- Which is the more fundamental property of the elements?
 - Atomic mass
 - Electronic configuration
 - Atomic number
 - Ionization energy



PTO.

Q-2 A. Give Gignard reaction for the preparation of alkane. (04)

Q-2 B. Give the difference between E1 and E2 Mechanism (03)

Or

Q-2 A. Explain Corey-House reaction with suitable example. (04)

Q-2 B. Give answers of any two questions out of three in short. (03)

(i) Give the difference between terminal and non-terminal alkenes.

(ii) Give the mechanism of addition of HBr to 1-propene.

(iii) Define term-Organometallic compound.

Q-3 A. Discuss the application of electronegativity. (04)

Q-3 B. Explain any two factors affecting the magnitude of ionization energy. (03)

Or

Q-3 A. Discuss the defect of Mendeleev's periodic table. (04)

Q-3 B. Give answers of any two questions out of three in short. (03)

(i) Define Ionization energy.

(ii) What is screening effect?

(iii) Define term electron affinity.



BEST OF LUCK