



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 4) External Examination - 2026
US04SEICH01: Introduction To green chemistry

Date: 28th March 2026, Saturday

Time: 1:45 PM to 3:15 PM

Total marks: 25

Q-1 Choose the most appropriate option. (05 Marks)

- Which of the following is not a principle of green chemistry?
A) Hazardous chemical synthesis
B) Green solvents and auxiliaries
C) Use of renewable feedstock
D) Design for energy efficiency
- Which of the following gas was traditionally used as a bleach paper?
A) Hydrogen
B) Chlorine
C) Sulfur
D) Carbon monoxide
- Which reaction is more uniform?
A) Solidphase
B) Photochemical
C) Microwave
D) Electrochemical
- Which of the following is a green solvent that is used in bleaching clothes?
A) Methanol
B) Toluene
C) Benzene
D) Tetrachloroethene
- Which following reaction is the example of Clainsan rearrangement?
A) Photochemical
B) Electrochemical
C) Solidphase
D) Microwave



Q-2. Explain twelve principles of green chemistry. (10)

Or

Q-2. Explain in detail Green catalyst. (10)

Q-3. Explain Synthesis of Ibuprofen and Adipic acid by conventional and Green method. (10)

Or

Q-3. Explain ionic liquid with suitable examples. (10)