

B.Sc. (H) Chem and B.Sc (P) (Semester IV)

SEC: Green methods in chemistry

Q1. What do you mean by Atom economy? How will you improve the atom economy of a reaction?

Q2. What is the role of solvent in chemical reaction? How is the role fulfilled in solventless reaction. What are the advantages of solventless synthesis. Explain with suitable reaction

Q3. Write short note on

a. Microwave in organic synthesis.

b. Green solvents.

Q4. Give the twelve principles of green chemistry. Explain any two with the help of suitable examples.

Q5. How does microwave heating differ from conventional heating.

Q6. Ionic liquids are green solvent? Explain.

Q7. What is sonication? What effect is responsible for supplying energy in sonication?

Q8. Explain the mechanism of supercritical CO₂ based surfactants in washing of clothes?

Q9. Define Rightfit pigments. Why they are also called azopigments?

Q10. Green chemistry is a sustainable chemistry. Explain.