

Type: MCQ

Q1. Which of the following is not an aspect of sustainable development?

1. Material from earth's crust must not systematically increase in nature.
2. The physical basis of earth productive nature cycle must be deteriorated.
3. Persistence substances produce by society must not systematically increase.
4. There must be fair and efficient use of resources with respect to meeting human need.

Q2. What is the percentage atom economy of acid hydrolysis of methyl acetate?

1. 65.22%
2. 69.22%
3. 58.22%
4. 55.22%

Q3. Select the correct alternative from the following.

1. Exposure = hazard X risk
2. Hazard = exposure X risk
3. Risk = hazard X exposure
4. Risk = Hazard X toxicity

Q4. Which one of the following is not an alternative for Volatile Organic Liquids (VOCs).

1. Benign solutions
2. Ionic liquids
3. Supercritical fluids
4. Solvent base processes

Q5. _____ is the most recent and competing process for chlorine synthesis.

1. Mercury cell
2. Diaphragm cell
3. Filtration cell
4. Membrane cell

Q6. The radial jet mixer is the simplest device for efficient _____ mixing.

1. Solid and gas
2. Liquid and liquid
3. Liquid and solid
4. Solid and solid

Q7. Increase in electrolyte concentration results in _____.

1. Decrease in resistance , increase in current
2. Increase in resistance, decrease in current

3. Both increases
4. Both decreases

Q8. _____ is used in spectacle glasses as a dirt repellent.

1. SiO_2
2. GeO_2
3. TiO_2
4. VO_2

Q9. CdSe and CdS normally have Wurtzite structure where each element is _____ coordinated.

1. Tetragonally
2. Tetrahedrally
3. Octahedrally
4. Linearly

Q10. What is the critical temperature in $^{\circ}\text{C}$ of supercritical carbon dioxide (SC- CO_2)?

1. 31.1
2. 32.2
3. 33.3
4. 34.4

Q11. The ultrasound frequency range of interest for chemical reaction to carry out is _____.

1. 20 – 2000 KHz
2. 20 -100 KHz
3. 20 -100 MHz
4. 20- 1000MHz

Q12. Polyacrylamide gels are synthesized by using _____.

1. N,N- ethylenebisacrilamide
2. N,N- α naphthylamine
3. N,N- β naphthylamine
4. N,N-methylenbisacrylamide