

Department of Chemical Engineering
SRM University
CH0204 Organic Chemical Technology

Quiz

Register No. _____

Date : ___/___/___

Batch. _____

Time : ___:___

Max. Marks: 10

Instructions:

- Encircle the correct answer
- Do not encircle more than one answer
- Unattempted questions will result in zero
- Wrong answers will also result in zero
- More than one answers or corrections in answers will result in zero
- No negative marks
- No doubts and discussions are entertained during the test time

1. Which one of the following is not likely to be constituent of vegetable (or edible) oils?

- (a) **citric acid** (b) oleic acid (c) stearic acid (d) glycerol

2. Identify which one of the following is **CORRECT**? Hydrogenation of oil is done to

- enable the oil to be packed in tin containers
- increase thermal conductivity of oil
- lower the melting point of oil
- (d) decrease the number of saturated bonds**

3. The organic acid monomer in Nylon 66 is

- (a) sebacic acid (b) terephthalic acid **(c) adipic acid** (d) sulfuric acid

4. Styrene-Butadiene rubber is commercially manufactured by

- bulk polymerization
- addition polymerization
- solution polymerization
- (d) emulsion polymerization**

5. Identify which of the following polymerization is used to obtain polyethylene

- (a) addition polymerization**
- condensation polymerization
- solution polymerization
- emulsion polymerization

6. Match the reactant-product combination in **Group I** with the unit process in **Group II**

- | | |
|--|---|
| (P) synthesis gas – methanol | (1) thermal pyrolysis |
| (Q) methanol – formaldehyde | (2) steam reforming |
| (R) ethylene dichloride – vinyl chloride | (3) catalytic hydrogenation |
| (S) methane – synthesis gas | (4) catalytic oxidation and dehydrogenation |

(a) P-2, Q-1, R-3, S-4

(b) P-2, Q-3, R-4, S-1

(c) P-1, Q-4, R-2, S-3

(d) P-3, Q-4, R-1, S-2

7. Match the polymer in **Group I** to the polymer characteristics in **Group II**

- | | |
|-------------------------|---------------------------|
| (P) polyethylene | (1) elastomer |
| (Q) phenol-formaldehyde | (2) fiber |
| (R) polyisoprene | (3) thermoplastic |
| (S) polyester | (4) thermosetting polymer |

(a) P-3, Q-4, R-1, S-2

(b) P-4, Q-2, R-3, S-1

(c) P-3, Q-2, R-1, S-4

(d) P-4, Q-3, R-1, S-2

8. The **CORRECT** sequence of equipment used in the production of polyester fiber nylon salt is

- autoclave, evaporator, autoclave, casting wheel, chipper and spinning system
- (b) evaporator, autoclave, casting wheel, chipper, spinning system and bobbin**
- casting wheel, chipper, spinning system, bobbin, evaporator and autoclave
- evaporator, chipper, spinning system, bobbin, autoclave and casting wheel

9. In the sulfate process for the manufacture of paper, the 'cooking liquor' is

- magnesium bisulfite and sulfur dioxide in acid medium
- sodium sulfide, magnesium sulfide and sodium carbonate
- (c) sodium hydroxide, sodium sulfide and sodium carbonate**
- sodium carbamate, sodium hydroxide and sodium sulfide

10. Which **ONE** of the following process sequences is used in the production of synthesis gas?

- (a) **Desulphurization** → **Steam Reforming** → **Hot K_2CO_3 cycle**
- (b) Steam Reforming → Desulphurization → Hot K_2CO_3 cycle
- (c) Hot K_2CO_3 cycle → Steam Reforming → Desulphurization
- (d) Hot K_2CO_3 cycle → Desulphurization → Steam Reforming