



THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Answer the following short questions. (15x2=30)

1. What are Linear ALKYL BENZENES?
2. Write down any two applications of HYDROGENATION reaction.
3. What is CULLET?
4. Enlist any two Reducing agents.
5. Write down any two examples of UNIT OPERATIONS.
6. Draw the structure of PHTHALIC ANHYDRIDE & mention its application.
7. What is CUMENE HYDROPEROXIDE?
8. What is the state of BUTADIENE at atmospheric conditions?
9. Define glass CHEMICALLY.
10. What is general formula of GLASS?
11. Which one ACID is produced by oxidation of carbohydrates?
12. What is SAPONIFICATION process?
13. What is specialty of PYREX glass?
14. What are key raw materials for colored glass?
15. What are zwitter ionic surfactants?

Q.2 Answer the following questions. (5x6=30)

1. What are multiple effect evaporators? Why these are preferred over single effect evaporators in the industry?
2. Briefly describe the role of Borax and Soda in the manufacturing of glass?
3. Write a note on physically tempered SAFETY GLASS.
4. How SURFACTANTS are classified. Briefly describe each class with examples?
5. Explain the process involved in the manufacturing of Phthalic Anhydride from Naphthalene?