



THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

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

1. What is CULLET?
2. Enlist any two oxidizing agents.
3. Write any two application of hydrogenation.
4. Define UNIT OPERATION with example.
5. Mention the major application of NITRATION of benzene.
6. What is CUMENE HYDROPEROXIDE?
7. Draw the structure of PHTHALIC ANHYDRIDE.
8. Which one ACID is produced by oxidation of carbohydrates?
9. Write down the IUPAC name of STYRENE.
10. What is "GLASS"?
11. What is percentage of Silica in HIGH SILICA glass?
12. Enlist major ingredients of SODA GLASS.
13. What is ANNEALING?
14. What is SAPONIFICATION?
15. Why LAMINATED safety glass does not break easily?

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

1. Briefly describe the role of Borax and Soda in the manufacturing of glass?
2. Write a note on chemically strengthened SAFETY GLASS.
3. Describe the significance and mechanism of Sulphonation of benzene.
4. Describe the classification of surfactants with examples.
5. Explain the chemical changes involved in manufacturing of Oxalic acid from Sodium formate?