



KEEPING MOBILE PHONE/SMART WATCH, EVEN IN 'OFF' POSITION, IS EXAM MALPRACTICE

**Answer any TEN Questions
(10 X 10 = 100 Marks)**

1. Explain in detail a process for obtaining sulfur from natural gas by oxidation and reduction process required for sulfuric acid production. What are chemical reactions involved.
2. Describe with the neat flow diagram, the manufacture of sulfuric acid and Oleum by contact process.
3. With the help of block diagram, reactions how the Portland cement manufacturing from high grade lime stone clay also discuss about the major engineering problems.
4. Describe with the neat flow diagram, the manufacture of acetylene from natural gas, what are chemical reactions involved, Physical and chemical properties.
5. Discuss the manufacture of blue gas, producer gas and explain the reactions that take place in various zones, mentioned the composition and applications.
6. During manufacture of urea, increasing the load on a prilling tower can have negative consequences for the prill quality. Higher moisture contents and higher temperatures cause more dust formation and an increased likelihood of caking problems. Caking can be so severe that the product becomes damaged, when it is loaded on trucks or cars. Part of the product will be lost and complaints from customers may follow. How will you overcome this problem?
7. Manufacture of single super phosphate, triple super phosphate, both SiF_4 and HF are gases at ambient temperature and collected by the Den scrubbing system. The fluoride evolution is 25% increasing with increase in sulphuric acid concentration. SiF_4 hydrolyses to form silica that potentially could present maintenance problem. How will you overcome this maintenance problem?
8. With help of neat diagram, What are the three major by products obtained from extraction of sucrose from sugarcane? Also mentioned their application.
9. State the uses of glycerine and soap. With reaction discuss in detail the production of white glycerine and soap powder from fatty acids.
10. Describe the viscose process for the manufacture of Rayon fiber indicating in detail the steps involved.
11. Explain with a flow sheet the production of phenol-formaldehyde resin, polyester fibers.
12. Describe the manufacture of nylon6, nylon66 with a neat process diagram.

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