



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

1. Name any two fractions with carbon range obtained from fractional distillation of petroleum.
2. What is reforming?
3. Describe catalytic cracking.
4. What are products of refining?
5. Why desalting of crude oil is important?
6. Explain bleaching of paper pulp.
7. What is soda pulping?
8. Why is wheat straw preferred over rice straw for paper pulp?
9. What is beating process of paper production?
10. How paper pulp manufacturing causes water pollution?
11. Write down the action of calcium cyanide as fertilizer.
12. Give two examples of phosphate fertilizers?
13. What are raw materials for normal superphosphate fertilizers?
14. Name few natural organic fertilizers.
15. Differentiate between micro & macro nutrients.

**Q.2. Answer the following questions. (6x5=30)**

1. Discuss C4 alkylation process with the help of flow sheet diagram.
2. What is octane number of fuel and how it can be improved?
3. What is debarking, how it is carried out, explain its significance in pulp manufacturing.
4. Explain Kraft process for making manufacturing.
5. Describe manufacturing of ammonia by Haber's process.
6. What are triple superphosphates, write down their important properties and applications.