

**Unit test -1**

**Chapter 1:Petroleum & Refinery (08marks)**

**2 marks question**

1. Give the advantages of crude oil over other energy sources (any two).
2. Give the composition of crude oil in terms of its elements?
3. Name any four unit processes carried out in petroleum refinery.
4. Name any four refinery products

**4 marks question:**

5. Give the classification of petroleum.
6. Explain the origin of petroleum.
7. Explain any four factors affecting the prices of crude oil?

**Chapter 2:Distillation of crude oil (18 marks)**

**2 marks question**

8. Give uses of each of the following products  
i) Jet Fuel    ii)Naphtha
9. Define cetane number. What does it indicate?
10. Define aniline point and what its importance is?
11. Give any two test properties of diesel.
12. Give the importance of desalting of crude (any two).

**4 marks question:**

13. Explain how emulsified water is removed from crude.
14. Draw the diagram of Abel's apparatus.
15. Explain the working of aniline point apparatus
16. Explain atmospheric distillation of crude oil?
17. List the fractions obtained from crude oil distillation? State their boiling point range?
18. Give the importance of vacuum distillation in crude oil refining

### **Chapter 3: Processes in refinery (09marks)**

#### **2 marks question**

19. List the types of cracking.
20. Differentiate between thermal cracking and catalytic cracking (any two points)
21. Give the importance of visbreaking

#### **4 marks question:**

22. Explain delayed coking process.
23. Explain fluidized bed catalytic cracking.
24. Draw the flow sheet for two stage catalytic reforming.
25. Explain the hydrogenation process with reaction.