

CLASS – XI

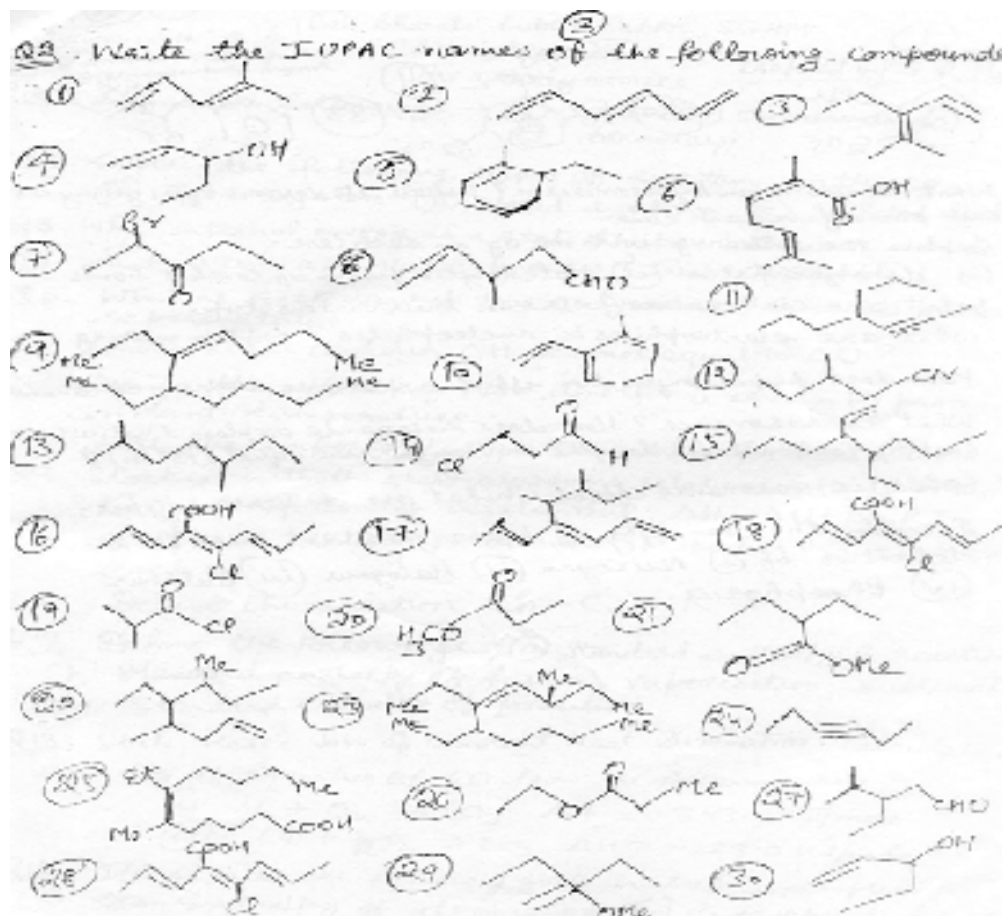
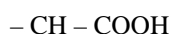
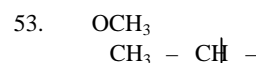
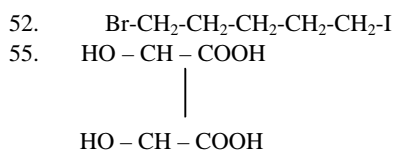
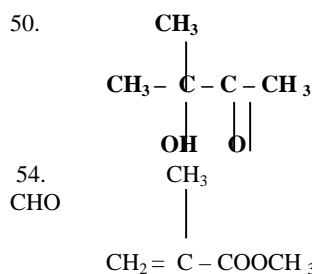
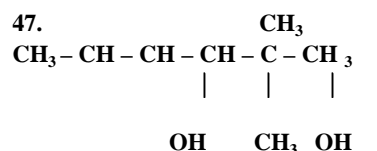
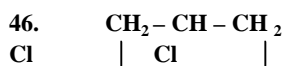
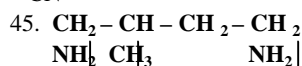
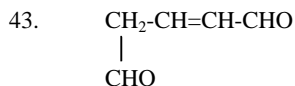
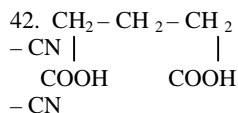
CHEMISTRY

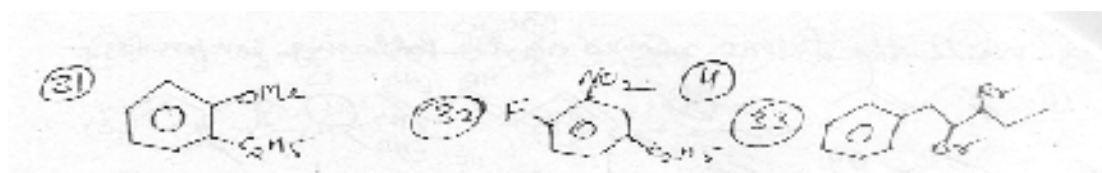
ORGANIC CHEMISTRY

ASSIGNMENT NO. 8

Q1. Give IUPAC name of the followings:-

1. $\text{CH}_3\text{CH}_2\text{CH}=\text{CH}_2$
2. $\text{CH}_3\text{C}\equiv\text{C}-\text{CH}_3$
3. $\begin{array}{c} \text{CH}_3-\text{CH}-\text{CH}_3 \\ | \\ \text{I} \end{array}$
4. $\text{CH}_3\text{CH}_2-\text{O}-\text{CH}_2-\text{CH}_3$
5. $\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{COOH}$
6. $\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{CHO}$
7. $\text{CH}_3\text{COCH}_2-\text{CH}_2-\text{CH}_3$
8. $\text{CH}_3\text{CH}_2\text{CH}_2\text{COCl}$
9. $\text{CH}_3-\text{CONH}_2$
10. $\text{CH}_3\text{COOC}_2\text{H}_5$
11. $\text{CH}_3\text{CH}_2-\text{NO}_2$
12. $\text{CH}_3\text{CH}_2\text{CH}_2\text{CN}$
13. $\begin{array}{c} \text{C}_2\text{H}_5 \\ | \\ \text{CH}_3-\text{CH}-\text{C}-\text{CH}_2-\text{CH}_3 \\ | \quad | \\ \text{CH}_3 \quad \text{CH}_3 \end{array}$
14. $\begin{array}{c} \text{C}_2\text{H}_5 \quad \text{CH}_3 \\ | \quad | \\ \text{CH}_3-\text{CH}_2-\text{CH}-\text{CH}-\text{CH}_2-\text{CH}_3 \end{array}$
15. $\begin{array}{c} \text{C}_2\text{H}_5 \\ | \\ \text{CH}_3-\text{CH}-\text{C}-\text{CH}_2-\text{CH}-\text{CH}_3 \\ | \quad | \\ \text{CH}_3 \quad \text{CH}_3 \end{array}$
16. $\begin{array}{c} \text{CH}_3 \\ | \\ \text{CH}_3-\text{C}-\text{CH}_3 \\ | \\ \text{CH}_3 \end{array}$
17. $\begin{array}{c} \text{CH}_3-\text{CH}-\text{CH}_3 \\ | \\ \text{CH}_3-\text{C}=\text{CH}_2 \end{array}$
18. $\begin{array}{c} \text{CH}_3-\text{CH}_2-\text{CH}-\text{C}\equiv\text{C}-\text{CH}_3 \\ | \\ \text{CH}_3 \end{array}$
19. $\begin{array}{c} \text{O} \\ || \\ \text{CH}_3-\text{CH}_2-\text{CH}-\text{C}-\text{OCH}_3 \\ | \\ \text{C}_2\text{H}_5 \end{array}$
20. $\begin{array}{c} \text{O} \\ || \\ \text{CH}_3-\text{CH}_2=\text{CH}-\text{C}-\text{C}-\text{OH} \\ | \\ \text{CH}_3 \end{array}$
21. $\begin{array}{c} \text{CH}_3 \quad \text{O} \\ | \quad | \\ \text{CH}_2=\text{C}-\text{C}-\text{OC}_2\text{H}_5 \\ | \quad | \\ \text{CH}_3 \quad \text{CH}_3 \end{array}$
22. $\begin{array}{c} \text{OCH}_3 \\ | \\ \text{CH}_3-\text{CH}=\text{C}-\text{CH}_3 \end{array}$
23. $\begin{array}{c} \text{CH}_3 \quad \text{CH}_3 \\ | \quad | \\ \text{CH}_3-\text{CH}-\text{CH}-\text{CH}_2\text{NH}_2 \end{array}$
24. $\begin{array}{c} \text{O} \\ || \\ \text{CH}_3-\text{C}-\text{CH}-\text{CH}-\text{CH}_3 \\ | \quad | \\ \text{C}_2\text{H}_5 \quad \text{CH}_3 \end{array}$
25. $\begin{array}{c} \text{O} \\ || \\ \text{CH}_3-\text{CH}-\text{CH}_2-\text{C}-\text{Br} \\ | \\ \text{CH}_2 \end{array}$
26. $\begin{array}{c} \text{C}_6\text{H}_5 \\ | \\ \text{CH}_3-\text{CH}-\text{CH}_2\text{OH} \end{array}$
27. $(\text{CH}_3\text{CH}_2)_3\text{COH}$
28. $\begin{array}{c} \text{CH}_3 \\ | \\ \text{CH}_3-\text{C}-\text{CH}-\text{CH}-\text{CH}_2-\text{CH}_3 \\ | \quad | \quad | \\ \text{CH}_3 \quad \text{CH}_3 \quad \text{I} \end{array}$
29. $\begin{array}{c} \text{CH}_3 \\ | \\ \text{CH}_3-\text{CH}-\text{CO}-\text{CH}-\text{CH}_3 \\ | \\ \text{CH}_3 \end{array}$
30. $\begin{array}{c} \text{CH}_3 \\ | \\ \text{CH}_3-\text{CH}_2-\text{CH}-\text{CH}-\text{C}-\text{CH}_3 \\ | \quad | \quad | \\ \text{Cl} \quad \text{CH}_3 \quad \text{OH} \end{array}$
31. $\begin{array}{c} \text{CH}_3 \\ | \\ \text{C}_6\text{H}_{11}-\text{CH}-\text{CHO} \end{array}$
32. $\begin{array}{c} \text{O} \\ || \\ \text{CH}_3-\text{C}-\text{CH} \end{array} \begin{array}{l} \diagup \text{CH}_3 \\ \diagdown \text{CH}_3 \end{array}$
33. $\begin{array}{c} \text{CH}_3-\text{CO} \\ \diagdown \quad \diagup \text{O} \\ \text{CH}_3-\text{CH}_3-\text{CO} \end{array}$
34. $\begin{array}{c} \text{CH}_3 \\ | \\ \text{CH}_3-\text{CH}_2-\text{CH}-\text{COOC}_2\text{H}_5 \end{array}$
35. $\begin{array}{c} \text{CH}_3-\text{CH}-\text{CH}-\text{CHO} \\ | \quad | \\ \text{CH}_3 \quad \text{CH}_3 \end{array}$
36. $\begin{array}{c} \text{C}_2\text{H}_5 \quad \text{C}_2\text{H}_5 \\ | \quad | \\ \text{CH}_3-\text{C}-\text{CH}_2-\text{C}-\text{CH}_3 \\ | \end{array}$
37. $\text{CH}_3-\text{C}\equiv\text{C}-\text{CO}-\text{CH}_2-\text{CH}_3$
38. $\text{CH}_3-\text{CH}-\text{CH}-\text{CH}_2$





- Q3. What do you mean by isomerism? Discuss its various types giving at least one e.g. in each case.
- Q4. Explain the following with one e.g. in each case: - (i) Homolytic Fission (ii) Heterolytic fission of covalent bonds
- Q5. What are carbocations? Discuss their various types.
- Q6. What are electrophiles & nucleophiles? Explain with e.g.
- Q7. How does hyper conjugation effect explain the stability of alkenes?
- Q8. What is resonance? How does resonance explain that all carbon-carbon bond lengths in benzene are equal (139 pm)?
- Q9. What is resonance effect? What are its various types?
- Q10. Describe chemistry of Lassaigne's test used for the detection of (i) Nitrogen (ii) Halogens (iii) Sulphur (iv) Phosphorus.