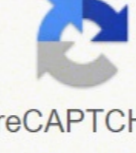


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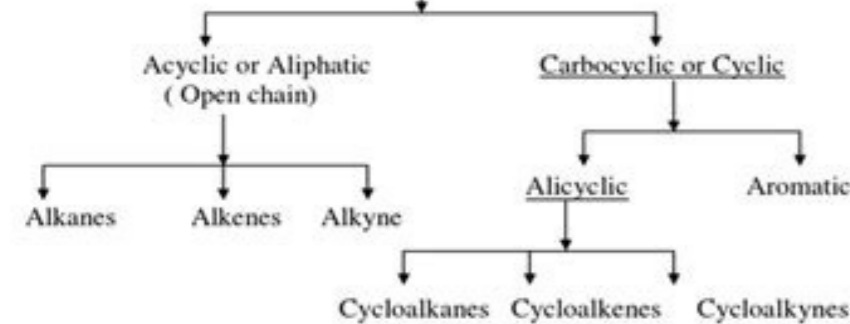
Atomic Number	Symbol	Name
1	H	Hydrogen
2	He	Helium
3	Li	Lithium
4	Be	Beryllium
5	B	Boron
6	C	Carbon
7	N	Nitrogen
8	O	Oxygen
9	F	Fluorine
10	Ne	Neon
11	Na	Sodium
12	Mg	Magnesium
13	Al	Aluminum
14	Si	Silicon
15	P	Phosphorus
16	S	Sulfur
17	Cl	Chlorine
18	Ar	Argon
19	K	Potassium
20	Ca	Calcium
21	Sc	Scandium
22	Ti	Titanium
23	V	Vanadium
24	Cr	Chromium
25	Mn	Manganese
26	Fe	Iron
27	Co	Cobalt
28	Ni	Nickel
29	Cu	Copper
30	Zn	Zinc
31	Ga	Gallium
32	Ge	Germanium
33	As	Arsenic
34	Se	Selenium
35	Br	Bromine
36	Kr	Krypton
37	Rb	Rubidium
38	Sr	Strontium
39	Y	Yttrium
40	Zr	Zirconium
41	Nb	Niobium
42	Mo	Molybdenum
43	Tc	Technetium
44	Ru	Ruthenium
45	Rh	Rhodium
46	Pd	Palladium
47	Ag	Silver
48	Cd	Cadmium
49	In	Indium
50	Sn	Tin
51	Sb	Antimony
52	Te	Tellurium
53	I	Iodine
54	Xe	Xenon
55	Ba	Barium
56	La	Lanthanum
57	Ce	Cerium
58	Pr	Praseodymium
59	Nd	Niodymium
60	Pm	Promethium
61	Sm	Samarium
62	Eu	Europium
63	Gd	Gadolinium
64	Tb	Terbium
65	Dy	Dysprosium
66	Ho	Holmium
67	Er	Erbium
68	Tm	Thulium
69	Yb	Ytterbium
70	Lu	Lutetium
71	Hf	Hafnium
72	Ta	Tantalum
73	W	Tungsten
74	Re	Rhenium
75	Os	Osmium
76	Ir	Iridium
77	Pt	Platinum
78	Au	Gold
79	Hg	Mercury
80	Tl	Thallium
81	Pb	Lead
82	Bi	Bismuth
83	Po	Polonium
84	At	Astatine
85	Fr	Francium
86	Ra	Radium
87	Ac	Actinium
88	Th	Thorium
89	Pa	Protactinium
90	U	Uranium
91	Np	Neptunium
92	Pu	Plutonium
93	Am	Americium
94	Cm	Curium
95	Bk	Berkelium
96	Cf	Californium
97	Es	Einsteinium
98	Fm	Fermium
99	Mendelevium	
100	Nobelium	
101	Lawrencium	
102	Rutherfordium	
103	Dubnium	
104	Roentgenium	
105	Darmstadtium	
106	Sg	
107	Bh	
108	Hs	
109	Mt	
110	Ds	
111	Rg	
112	Cn	
113	Nh	
114	Fl	
115	Mc	
116	Lv	
117	Ts	
118	Og	

CHAPTER 13
HYDROCARBON

- Hydrocarbons are composed of Carbon and hydrogen.
- The important fuels like Petrol, kerosene, coal gas, CNG, LPG etc. are all hydrocarbons or their mixture.

Sources:
Petroleum and natural gas are the major sources of aliphatic hydrocarbon while coal is an important source of aromatic hydrocarbons. The oil trapped inside the rocks is known as petroleum. PETRA – ROCK, OLEUM – OIL. The oil in the petroleum field is covered with a gaseous mixture known as natural gas. The main constituents of the natural gas are methane, ethane, propane and butane.

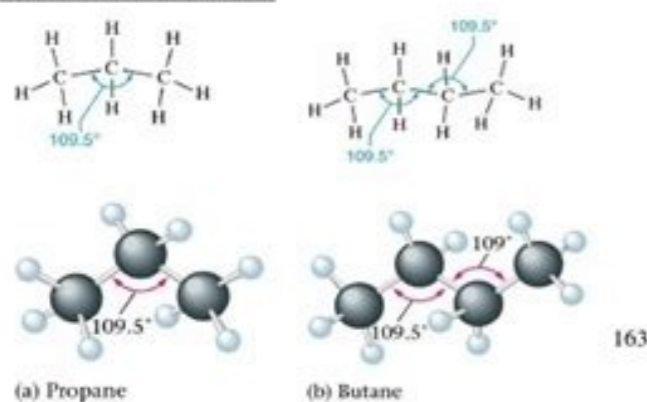
CLASSIFICATION OF HYDROCARBONS:
HYDROCARBON



Alkanes:-

- Paraffins
- General formula C_nH_{2n+2}
- sp^3 hybridisation
- C-C bond length 1.54 \AA
- Chemically unreactive
- Show chain, position and optical isomerism.
- Heptane has 9 isomer, Octane 18 and Decane 75.

Nomenclature:

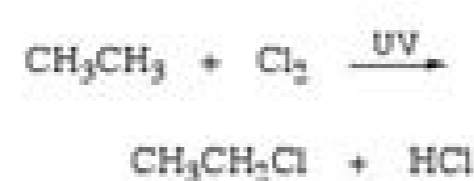


SECTION B: QUESTIONS IN THIS PART ARE WORTH 1.5 MARKS EACH.

ANSWER ALL QUESTIONS FROM THIS PART.

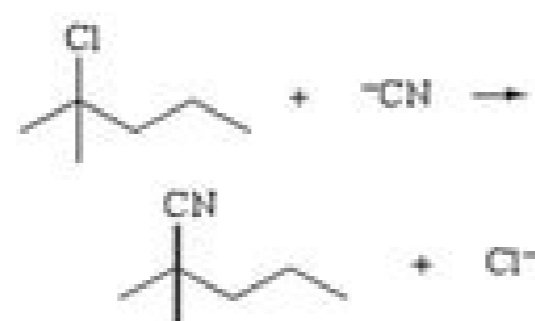
Circle the correct answer, eg (D):

- B1** Free radical bromination of an alkane with a halogen with UV light as catalyst (for example, ethane with chlorine, right) has three steps:



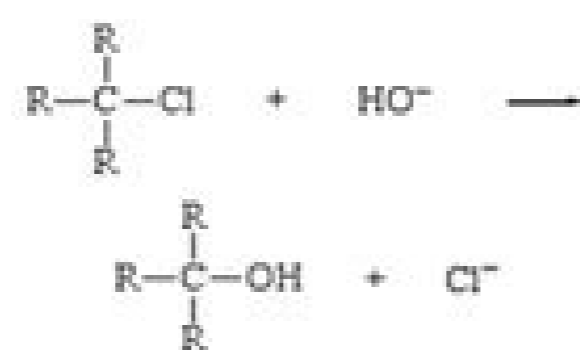
- A: initiation, combination, termination
B: initiation, crosslinking, termination
C: initiation, crystallisation, termination
D: initiation, hydrolysis, termination
E: initiation, propagation, termination

- B2** Consider the reaction between an alkyl halide and cyanide ion (^-CN , right). The Cl^- is:



- A: an electrophile
B: a free radical
C: the leaving group
D: a nucleophile
E: the substrate

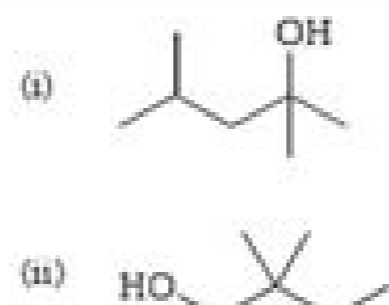
- B3** Consider the general reaction to the right, of a tertiary alkyl halide with hydroxide to form an alcohol. This is:



- A: an elimination
B: a nucleophilic addition
C: a reduction
D: an S_N1 nucleophilic substitution
E: an S_N2 nucleophilic substitution

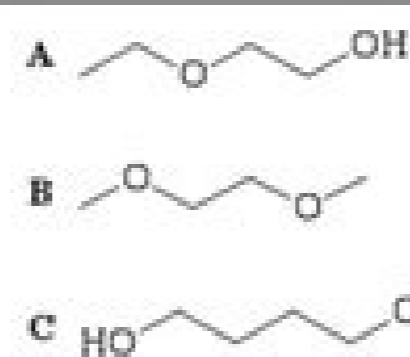
- B4** Consider the alcohols on the right:

- A: (i) is primary and (ii) is secondary
B: (i) is primary and (ii) is tertiary
C: (i) is secondary and (ii) is primary
D: (i) is secondary and (ii) is tertiary
E: (i) is tertiary and (ii) is primary



- B5** Consider the three compounds on the right, all isomers of $C_4H_{10}O_2$. The order from **lowest** boiling point to **highest** boiling point is:

- A: A, B, C
B: A, C, B
C: B, A, C
D: B, C, A
E: C, A, B



Atomic Number	Symbol	Name
1	H	Hydrogen
2	He	Helium
3	Li	Lithium
4	Be	Beryllium
5	B	Boron
6	C	Carbon
7	N	Nitrogen
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9	F	Fluorine
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25	Mn	Manganese
26	Fe	Iron
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28	Ni	Nickel
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30	Zn	Zinc
31	Ga	Gallium
32	Ge	Germanium
33	As	Arsenic
34	Se	Selenium
35	Br	Bromine
36	Kr	Krypton
37	Rb	Rubidium
38	Sr	Strontium
39	Y	Yttrium
40	Zr	Zirconium
41	Nb	Niobium
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56	La	Lanthanum
57	Ce	Cerium
58	Pr	Praseodymium
59	Nd	Niodymium
60	Pm	Promethium
61	Sm	Samarium
62	Eu	Europium
63	Gd	Gadolinium
64	Tb	Terbium
65	Dy	Dysprosium
66	Ho	Holmium
67	Er	Erbium
68	Tm	Thulium
69	Yb	Ytterbium
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71	Hf	Hafnium
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85	Fr	Francium
86	Ra	Radium
87	Ac	Actinium
88	Th	Thorium
89	Pa	Protactinium
90	U	Uranium
91	Np	Neptunium
92	Pu	Plutonium
93	Am	Americium
94	Cm	Curium
95	Bk	Berkelium
96	Cf	Californium
97	Es	Einsteinium
98	Fm	Fermium
99	Mendelevium	
100	Nobelium	
101	Lawrencium	
102	Rutherfordium	
103	Dubnium	
104	Roentgenium	
105	Darmstadtium	
106	Sg	
107	Bh	
108	Hs	
109	Mt	
110	Ds	
111	Rg	
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