



: _____ - -

Atome

()

: Atomic number

: Atomic weight

(orbital)

:Electrones

(shells)

(s , p , d) :

()

() :

: .

			()
	1s	s	
	2s2p	s/p	
	3s3p3d	s/p/d	

[1.2.3]

s - p - d

()

. ()



:()

	(s-p-d)			
	s	p	d	

]

()

[

:()

8	7	6	5	4	3	2	1	
He							H	
Ne	F	O	N	C	B	Be	Li	
Ar	Cl	S	P	Si	Al	Mg	Na	

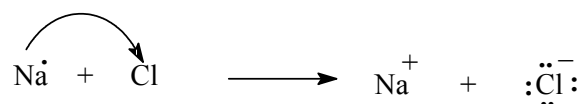
:(Ionic and Covalent bonds)

:(Ionic compounds)

Cation

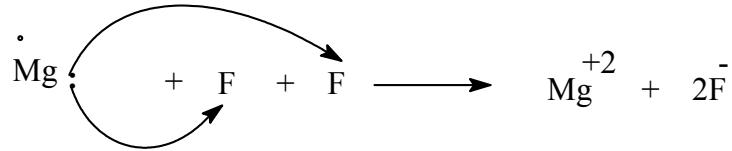
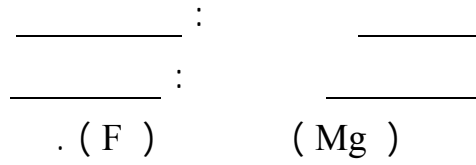
Anion

() :



()

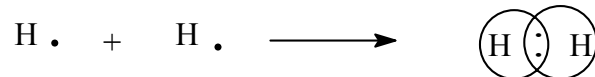
()



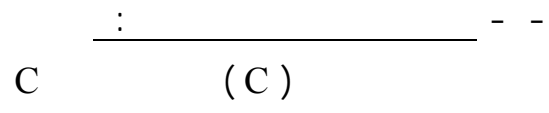
()



:(Covalent bond)

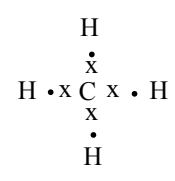
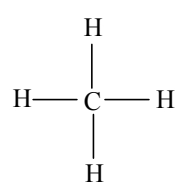


:Bond length _____

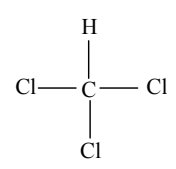
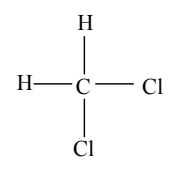


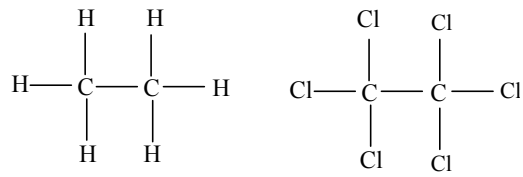
) () :

() (



CH₂Cl₂ , CHCl₃ :





(C - C)

C)

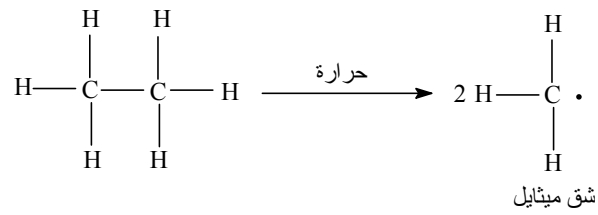
Methyl)

(CH₃)

(-C

(Radical)

(radical



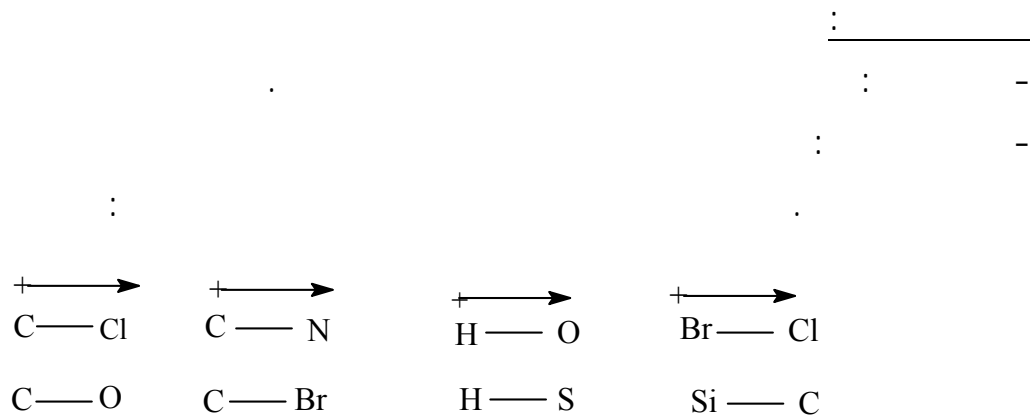
Covalent dipole bond - -

()

Dipole bond

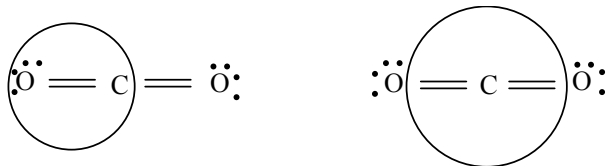


(δ)

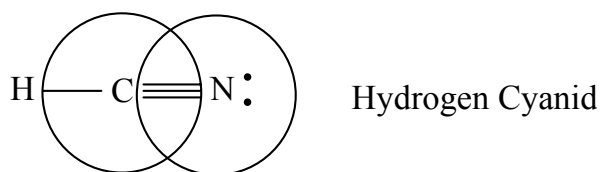


Multiple Covalent bond - -

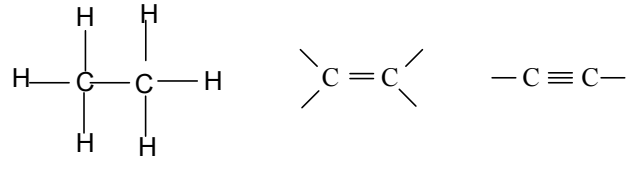
(CO₂)



(HCN)



:



إيثان إيثاين

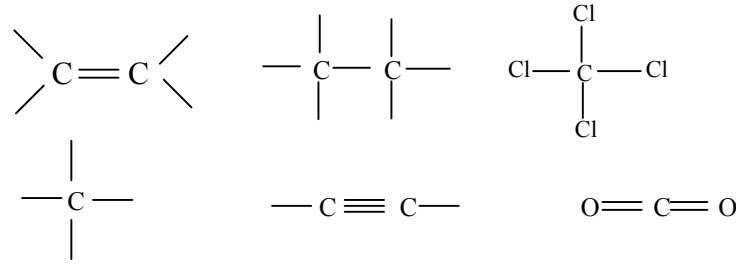
Valence : _____ - -

:

العنصر	H•	•C•	•N•	•O•	•F•	•Cl•
التكافؤ	1	4	3	2	1	1

:

:

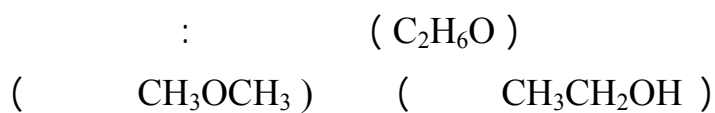


: Isomerism _____ - -

= Molecular formula

= Structural formula

()



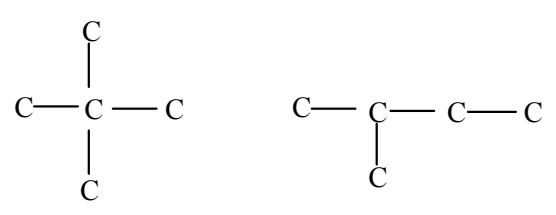
: Writing structural formula - -

: (C₅H₁₂)

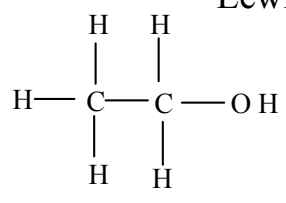
Streight chaine _____ -

(C-C-C-C-C) -

(C₅H₁₂) : Branched chain -

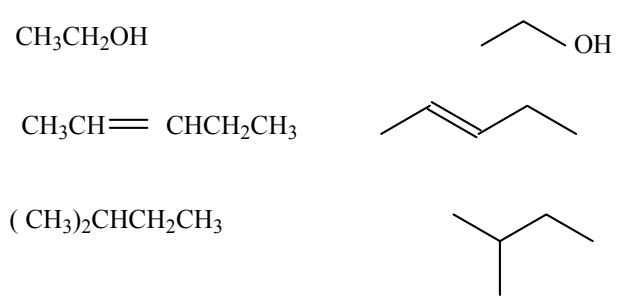


Lewis methode : -

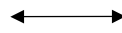
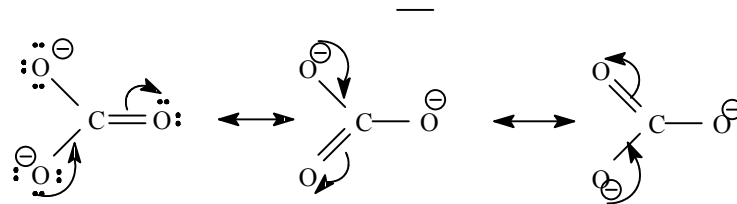


(CH₃-CH₂-OH CH₃CH₂OH) : Condensed methode -

: Line methode -



: The resonance - -



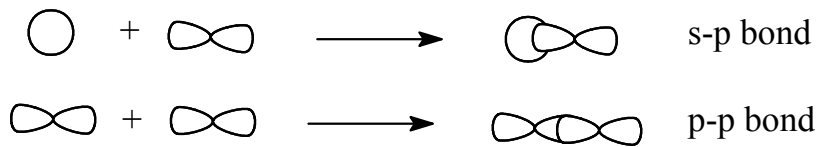
=

=

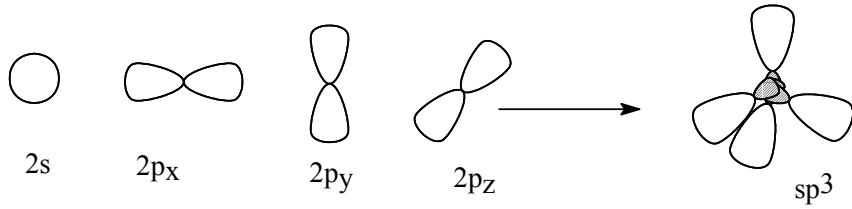
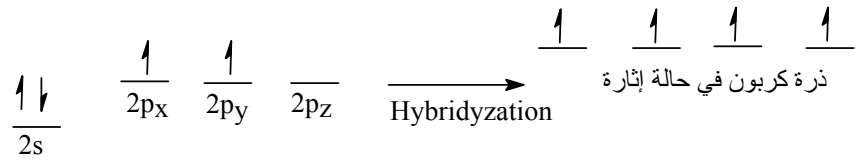


=

=



(S, P)

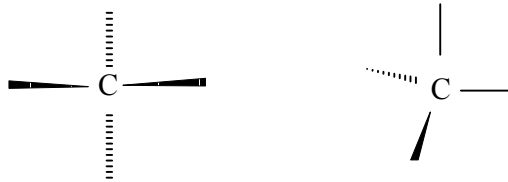


()

(s)
()

(sp³)
(p)

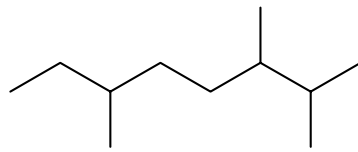
CH₄ :



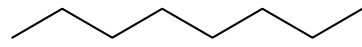
Classification of organic compounds _____ - -

: _____ - -

:
_____ () - (



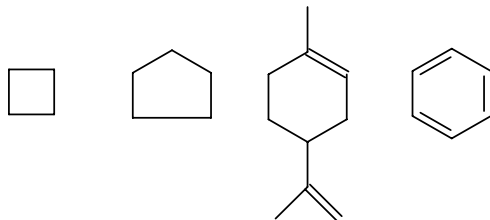
سلسلة متفرعة



سلسلة غير متفرعة

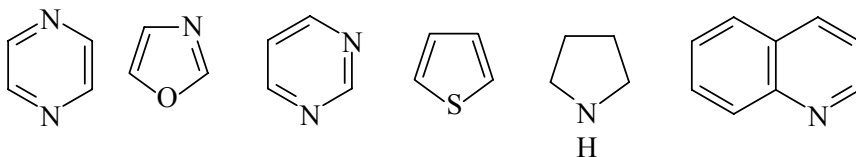
_____ - (

()



: _____ - (

(N,O,S)



: _____ - -

:

- -