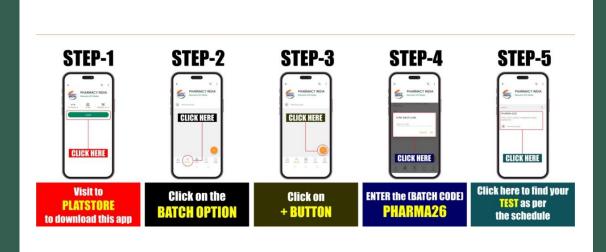


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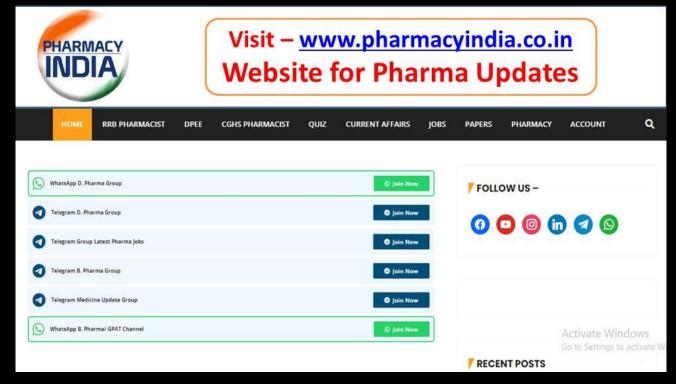


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# 1. Which of the following is incorrect for periodic properties?

- (a) Electronegativity of F > Cl
- (b) Bond energy of  $F_2 > Cl_2$
- (c) Electron affinity of Cl > F
- (d) F is more oxidizing than Cl



# 1. Which of the following is incorrect for periodic properties?

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- (b) Bond energy of  $F_2 > Cl_2$
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# 2. Which of the following is a characteristic property of non-metals?

- (a) They form basic oxides.
- (b) They are reducing agents.
- (c) They are electronegative.
- (d) They form cations by electron gain.







# 2. Which of the following is a characteristic property of non-metals?

- (a) They form basic oxides.
- (b) They are reducing agents.
- (c) They are electronegative.
- (d) They form cations by electron gain.







# 3. On going from right to left in a period, the electronegativity

- (a) decreases
- (b) increases
- (c) decreases first, then increases
- (d) remains unchanged







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- (b) increases
- (c) decreases first, then increases
- (d) remains unchanged







# 4. Which among the following is the most electronegative element?

- (a) C
- (b) Mg
- (c) S
- (d) O







# 4. Which among the following is the most electronegative element?

- (a) C
- (b) Mg
- (c) S
- (d) 0







# 5. Which of the following is the correct order of elements with increasing electronegativity?

(a) 
$$P < S < N < O$$

(b) 
$$S < P < N < O$$

(c) 
$$N < O < P < S$$

(d) 
$$N < P < S < 0$$







# 5. Which of the following is the correct order of elements with increasing electronegativity?







# 6. Going down in the group from F to I, the electronegativity

- (a) decreases
- (b) increases
- (c) decreases, then increases
- (d) increases, then decreases







# 6. Going down in the group from F to I, the electronegativity

- (a) decreases
- (b) increases
- (c) decreases, then increases
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### 7. Electronegativity is an ability to

- (a) attract protons
- (b) attract electrons
- (c) repel protons
- (d) repel electrons







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- (b) attract electrons
- (c) repel protons
- (d) repel electrons







# 8. The property of the halogens to attract the bonded electrons of the covalent bond is known as

- (a) electron affinity
- (b) ionisation potential
- (c) electronic attraction
- (d) electronegativity







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- (a) electron affinity
- (b) ionisation potential
- (c) electronic attraction
- (d) electronegativity







# 9. Which among the following is the most electronegative element?

- (a) B
- (b) F
- (c) O
- (d) C







# 9. Which among the following is the most electronegative element?

- (a) B
- (b) F
- (c) O
- (d) C







# 10. Which of the following elements have electronegativity less than 3 on Pauling's scale?

- (a) F
- (b) Cl
- (c) C
- (d) O







# 10. Which of the following elements have electronegativity less than 3 on Pauling's scale?

- (a) F
- (b) Cl
- (c) C
- (d) O







# 11. Which of the following is a permanent electron displacement effect?

- a) Inductomeric
- b) Electromeric
- c) Inductive
- d) All of the mentioned







# 11. Which of the following is a permanent electron displacement effect?

- a) Inductomeric
- b) Electromeric
- c) Inductive
- d) All of the mentioned







# 12. Arrange the following groups in the order of decreasing (+I) effect.

a) 
$$C_6H_5O->COO->CR_3>CHR_2>H$$

b) 
$$C_6H_5O- > H > CR_3 > CHR_2 > COO-$$

c) 
$$CR_3 > C_6H_5O- > H > COO- > CHR_2$$

d) 
$$C_6H_5O- > COO- > CHR_2 > CR_3 > H$$







# 12. Arrange the following groups in the order of decreasing (+I) effect.





# 13. Arrange the following groups in the order of decreasing (-I) effect.







# 13. Arrange the following groups in the order of decreasing (-I) effect.







## 14. Which of the following is an application of inductive effect?

- a) Bond length
- b) Dipole moment
- c) Strength of carboxylic acids
- d) All of the mentioned







## 14. Which of the following is an application of inductive effect?

- a) Bond length
- b) Dipole moment
- c) Strength of carboxylic acids
- d) All of the mentioned







### 15. Select correct statement about I effect?

- a) I effect transfers electrons from one carbon atom to another.
- b) I effect is the polarisation of  $\sigma$  bond electrons.
- c) I effect creates net charge in the molecule.
- d) I effect is distance independent.







### 15. Select the correct statement about I effect.

- a) I effect transfers electrons from one carbon atom to another.
- b) I effect is the polarisation of  $\sigma$  bond electrons.
- c) I effect creates net charge in the molecule.
- d) I effect is distance independent.







### 16. Which of the following group shows +I effect:

- a) -Br
- b) -COOH
- c) -OR
- d) -COO-







#### 16. Which of the following group shows +I effect:

- a) -Br
- b) -COOH
- c) –OR
- d) -COO-







#### 17. Which of the following alkyl group has the maximum +I effect?

- a)  $(CH_3)_2CH$
- b)  $(CH_3)_3C-$
- c) CH<sub>3</sub>CH<sub>2</sub>-
- d)  $CH_3$







#### 17. Which of the following alkyl group has the maximum +I effect?

a) (CH<sub>3</sub>)<sub>2</sub>CHb) (CH<sub>3</sub>)<sub>3</sub>Cc) CH<sub>3</sub>CH<sub>2</sub>d) CH<sub>3</sub>-

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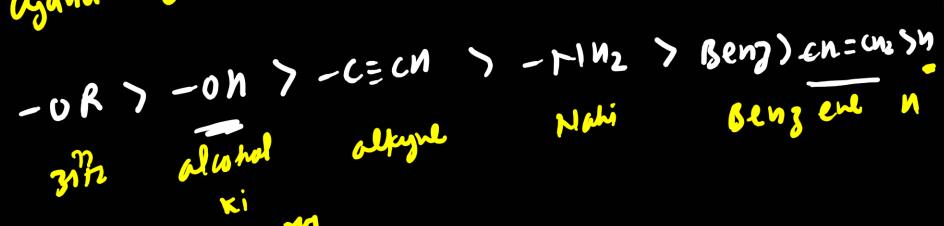
# 18. Decreasing –I effect of given groups is: (i) –CN (ii) – NO<sub>2</sub> (iii) –NH<sub>2</sub> (iv) –F

```
a) iii > ii > i > iv
b) ii > iii > iv > i
c) iii > ii > iv > i
d) ii > i > iv > iii
```











# 18. Decreasing –I effect of given groups is: (i) –CN (ii) – NO<sub>2</sub> (iii) –NH<sub>2</sub> (iv) –F

```
a) iii > ii > iv
b) ii > iii > iv > i
c) iii > ii > iv > i
d) ii > i > iv > iii
```





# 19. Which of the following is the strongest -I group:





# 19. Which of the following is the strongest -I group:





#### 20. Resonance is delocalisation of:

- a)  $\pi$  electrons
- b)  $\sigma$  electrons
- c)  $\sigma \pi$  electrons
- d) None







#### 20. Resonance is delocalisation of:

- a)  $\pi$  electrons
- b)  $\sigma$  electrons
- c)  $\sigma \pi$  electrons
- d) None







#### 21. Resonance involves:

- a) Delocalization of  $\pi$ -electrons along a conjugated system.
- b) Delocalization of lone pair along a conjugated system.
- c) Delocalization of negative charge along a conjugated system.
- d) All are correct.





#### 21. Resonance involves:

- a) Delocalization of  $\pi$ -electrons along a conjugated system.
- b) Delocalization of lone pair along a conjugated system.
- c) Delocalization of negative charge along a conjugated system.
- d) All are correct.







#### 22. During delocalization, which statement is incorrect:

- a) Net charge remains same
- b) Number of paired electrons remain same
- c) Number of unpaired electrons remain same
- d) Energy of resonating structures always remains same







#### 22. During delocalization, which statement is incorrect:

- a) Net charge remains same
- b) Number of paired electrons remain same
- c) Number of unpaired electrons remain same
- d) Energy of resonating structures always remains same







#### 23. Resonance structure of the molecule does not have

- a) higher energy than their hybrid structure.
- b) identical arrangement of atoms.
- c) the same number of paired electrons.
- d) always equal contribution to the resonance hybrid.







#### 23. Resonance structure of the molecule does not have

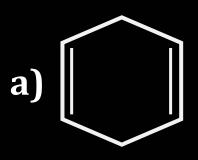
- a) higher energy than their hybrid structure.
- b) identical arrangement of atoms.
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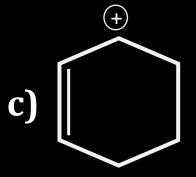


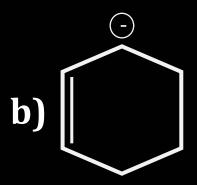


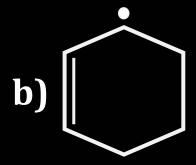


### 24. Which of the following species can not show resonance?







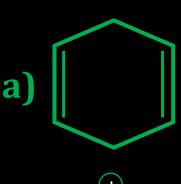


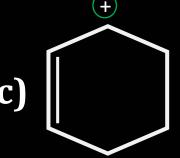


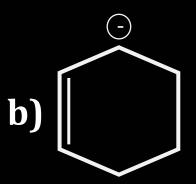


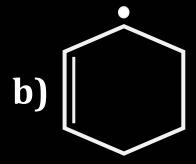


### 24. Which of the following species can not show resonance?













#### 26. Which of the following have conjugate system?

- a) CH<sub>2</sub> = CHCl
  b) CH<sub>2</sub>=CHCH3
  c) CH<sub>3</sub>CH=CH<sub>2</sub>
- d) <



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#### 26. Which does not have conjugate system?

- a) CH<sub>2</sub> = CHCl
  b) CH<sub>2</sub>=CHCH3
  c) CH<sub>3</sub>CH=CH<sub>2</sub>
- d) <







### 27. Which of the following is not acceptable as resonating structure:

a) 
$$CH_2$$
-N=O
H

d) None of these







### 27. Which of the following is not acceptable as resonating structure:

d) None of these







### 28. Which one of the following is least stable resonating structure?

H

$$0$$
d) NH<sub>2</sub>-C=OCH<sub>3</sub>







### 28. Which one of the following is least stable resonating structure?

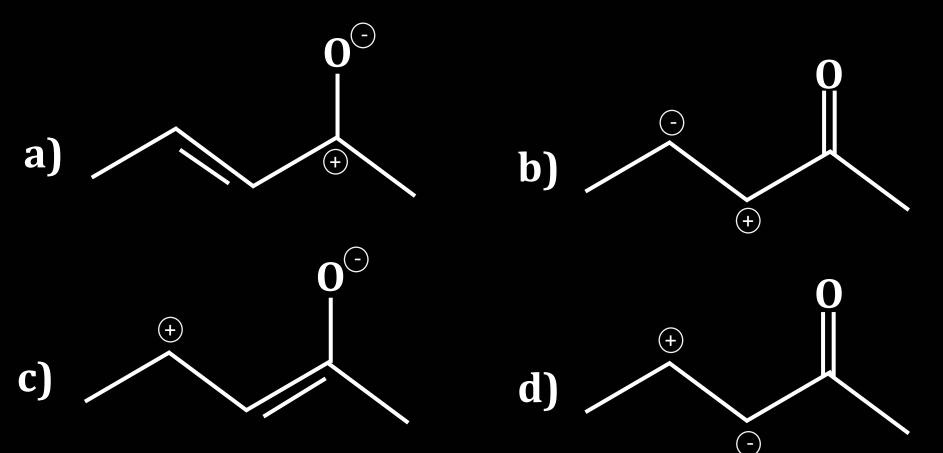
$$0$$
d) NH<sub>2</sub>-C=OCH<sub>3</sub>







# 29. Which of the following resonating structure is the least contributing structure?

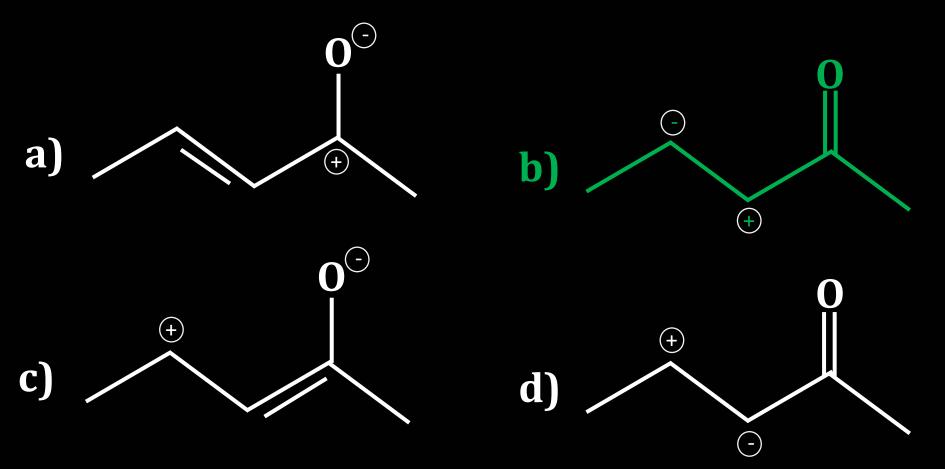








# 29. Which of the following resonating structure is the least contributing structure?







#### 30. In hyperconjugation there is overlap between:

- a) p- and  $\pi$ -orbitals
- b)  $2\pi$ -orbitals
- c) d-and  $\pi$ -orbital
- d)  $\sigma$  -and p-orbitals







#### 30. In hyperconjugation there is overlap between:

- a) p- and  $\pi$ -orbitals
- b) 2π-orbitals
- c) d-and  $\pi$ -orbital
- d) σ-and p-orbitals







# 31. Which of the following cannot exhibit hyperconjugation –

b) 
$$CH_3$$
  $\dot{C}H$ 

d) 
$$(CH_3)_3C-\dot{C}H_2$$







# 31. Which of the following cannot exhibit hyperconjugation –

b) 
$$CH_3$$
  $\dot{C}H$ 

d) 
$$(CH_3)_3C-CH_2$$







# 32. Which of the following alkenes will show maximum number of hyperconjugation forms?

a) CH<sub>2</sub>=CH<sub>2</sub>
b) CH<sub>3</sub>-CH=CH<sub>2</sub>
c) CH<sub>3</sub>-CH<sub>2</sub>-CH=CH<sub>2</sub>
d) (CH<sub>3</sub>)<sub>2</sub>-C=CH<sub>2</sub>







# 32. Which of the following alkenes will show maximum number of hyperconjugation forms?

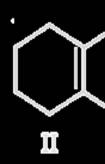
a) CH<sub>2</sub>=CH<sub>2</sub>
b) CH<sub>3</sub>-CH=CH<sub>2</sub>
c) CH<sub>3</sub>-CH<sub>2</sub>-CH=CH<sub>2</sub>
d) (CH<sub>3</sub>)2-C=CH<sub>2</sub>

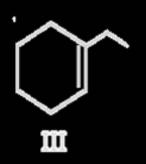




#### 33. Arrange the stability of following







- a) I < II < III
- b) II < I < III
- c) I < III < II
- d) II < III < I

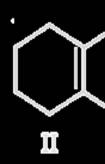


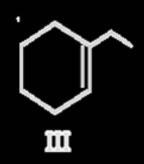




#### 33. Arrange the stability of following







- a) I < II < III
- b) II < I < III
- c) I < III < II
- d) II < III < I







## 34. Which one of the following has inductive, mesomeric and hyperconjugation effect?

b) 
$$CH_3$$
- $CH$ = $CH_2$ 







# 34. Which one of the following has inductive, mesomeric and hyperconjugation effect?

b) 
$$CH_3$$
- $CH$ = $CH_2$ 







# 35. Which of the following group has the maximum hyperconjugation effect when attached to bezene ring?

a) CH<sub>3</sub>b) CH<sub>3</sub>CH<sub>2</sub>c) (CH<sub>3</sub>)<sub>2</sub>CHd) (CH<sub>3</sub>)<sub>3</sub>C-





# 35. Which of the following group has the maximum hyperconjugation effect when attached to bezene ring?

```
a) CH<sub>3</sub>-
b) CH<sub>3</sub>CH<sub>2</sub>-
c) (CH<sub>3</sub>)<sub>2</sub>CH-
d) (CH<sub>3</sub>)<sub>3</sub>C-
```





# 36. The hybridization of the central carbon in $CH_3C\equiv N$ and the bond angle C-CN are

- a)  $sp^2$ ,  $180^\circ$
- b) sp, 180°
- c)  $sp^2$ ,  $120^\circ$
- d)  $sp^3$ ,  $109^\circ$







# 36. The hybridization of the central carbon in $CH_3C\equiv N$ and the bond angle C-CN are

- a)  $sp^2$ ,  $180^\circ$
- b) sp, 180°
- c)  $sp^2$ ,  $120^\circ$
- d)  $sp^3$ ,  $109^\circ$







### 37. What are the hybridizations of carbons 1 and 2 respectively in the following structure?



- a)  $sp^3$  and  $sp^2$
- b)  $sp^2$  and  $sp^3$
- c)  $sp^3$  and sp
- d)  $sp^2$  and  $sp^2$





### 37. What are the hybridizations of carbons 1 and 2 respectively in the following structure?



- a)  $sp^3$  and  $sp^2$
- b)  $sp^2$  and  $sp^3$
- c) sp<sup>3</sup> and sp
- d)  $sp^2$  and  $sp^2$





#### 38. Find the Pair with sp2 Hybridization of the Central Molecule.

- (a)  $NH_3$  and  $NO_2$ -
- (b)  $BF_3$  and  $NH_2$ -
- (c)  $BF_3$  and  $NO_2$ -
- (d)  $NH_2$  and  $H_2O$







#### 38. Find the Pair with sp2 Hybridization of the Central Molecule.

- (a)  $NH_3$  and  $NO_2$ -
- (b)  $BF_3$  and  $NH_2$ -
- (c)  $BF_3$  and  $NO_2$ -
- (d)  $NH_2$  and  $H_2O$







# 39. The hybridization of orbitals of N atom in $NO_3^-$ , $NO_2^+$ and $NH_4^+$ are respectively

- a)  $sp^2$ ,  $sp^3$ , sp
- b) sp, sp $^2$ , sp $^3$
- c)  $sp^2$ , sp,  $sp^3$
- d) sp,  $sp^3$ ,  $sp^2$







# 39. The hybridization of orbitals of N atom in $NO_3^-$ , $NO_2^+$ and $NH_4^+$ are respectively

- a)  $sp^2$ ,  $sp^3$ , sp
- b) sp, sp $^2$ , sp $^3$
- c)  $sp^2$ , sp,  $sp^3$
- d) sp,  $sp^3$ ,  $sp^2$







#### 40. The number of types of bonds between two carbon atoms in calcium carbide is

- a) Two sigma, two pi
- b) One sigma, two pi
- c) One sigma, one pi
- d) Two sigma, one pi







#### 40. The number of types of bonds between two carbon atoms in calcium carbide is

- a) Two sigma, two pi
- b) One sigma, two pi
- c) One sigma, one pi
- d) Two sigma, one pi





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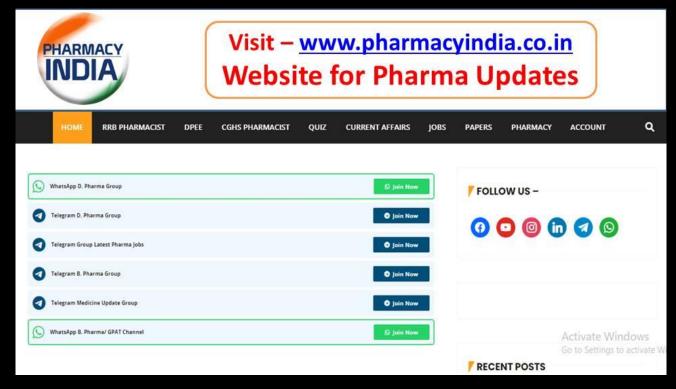


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