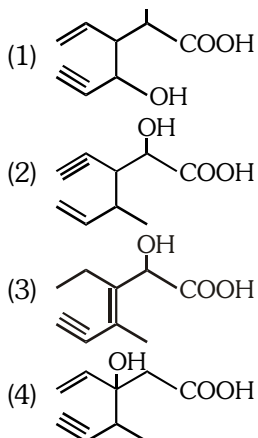


**NEET UG-2013**

- 8.** Structure of the compound whose IUPAC name is 3-Ethyl-2-hydroxy-4-methylhex-3-en-5-ynoic acid is :-



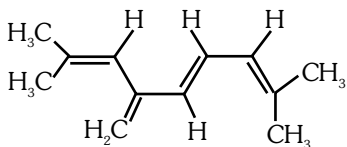
**AIPMT-2014**

9. Which of the following organic compounds has same hybridization as its combustion product  $\text{CO}_2$ ?

- (1) Ethane                      (2) Ethyne  
(3) Ethene                    (4) Ethanol

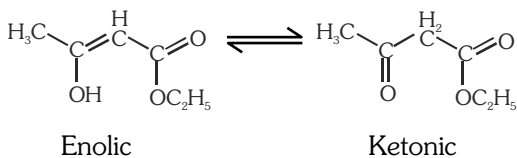
**AIPMT-2015**

- 10.** The total number of  $\pi$ -bond electrons in the following structure is :-



- (1) 8            (2) 12            (3) 16            (4) 4

- 11.** The enolic form of ethyl acetoacetate as below has:-



- (1) 16 sigma bonds and 1 pi - bond
- (2) 9 sigma bonds and 2 pi - bonds
- (3) 9 sigma bonds and 1 pi - bond
- (4) 18 sigma bonds and 2 pi - bonds

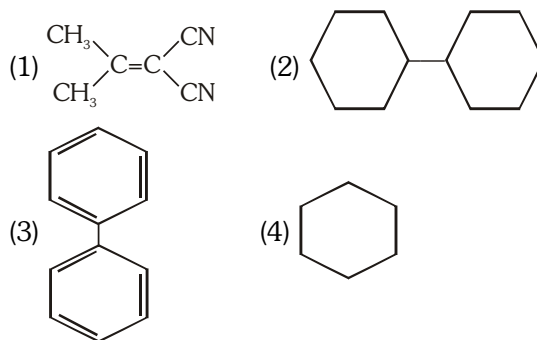
**NEET-I 2016**

- 12.** The pair of electron in the given carbanion,  $\text{CH}_3\text{C}\equiv\text{C}^\ominus$ , is present in which of the following orbitals ?

- (1) 2p      (2)  $sp^3$       (3)  $sp^2$       (4) sp

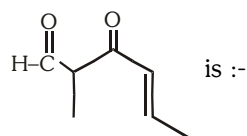
**NEET-II 2016**

- 13.** In which of the following molecules, all atoms are coplanar ?



**NEET(UG) 2017**

- 14.** The IUPAC name of the compound



- (1) 5-formylhex-2-en-3-one
- (2) 5-methyl-4-oxohex-2-en-5-al
- (3) 3-keto-2-methylhex-5-enal
- (4) 3-keto-2-methylhex-4-enal

**NEET(UG) 2018**

- 15.** Which of the following molecules represents the order of hybridisation  $sp^2$ ,  $sp^2$ ,  $sp$ ,  $sp$  from left to right atoms ?

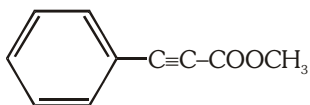
- (1)  $\text{HC} \equiv \text{C} - \text{C} \equiv \text{CH}$
- (2)  $\text{CH}_2 = \text{CH} - \text{C} \equiv \text{CH}$
- (3)  $\text{CH}_2 = \text{CH} - \text{CH} = \text{CH}_2$
- (4)  $\text{CH}_3 - \text{CH} = \text{CH} - \text{CH}_3$

**NEET(UG) 2019**

- 16.** The number of sigma ( $\sigma$ ) and pi ( $\pi$ ) bonds in pent-2-en-4-yne is :-
- (1) 10  $\sigma$  bonds and 3 $\pi$  bonds
  - (2) 8  $\sigma$  bonds and 5 $\pi$  bonds
  - (3) 11  $\sigma$  bonds and 2 $\pi$  bonds
  - (4) 13  $\sigma$  bonds and no  $\pi$  bond

**NEET(UG) 2020 (COVID-19)**

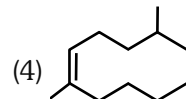
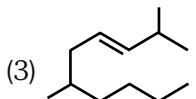
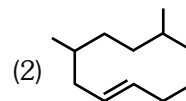
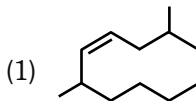
- 17.** How many (i)  $sp^2$  hybridised carbon atoms and (ii)  $\pi$  bonds are present in the following compound?



- (1) 7, 5      (2) 8, 6      (3) 7, 6      (4) 8, 5

**NEET(UG) 2021**

- 18.** The correct structure of 2,6-Dimethyl-dec-4-ene is:



<b>Que.</b>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>Ans.</b>	4	4	4	1	1	1	3	3	2	1	4	4	3	4	2
<b>Que.</b>	16	17	18												
<b>Ans.</b>	1	3	1												