

PYQSide

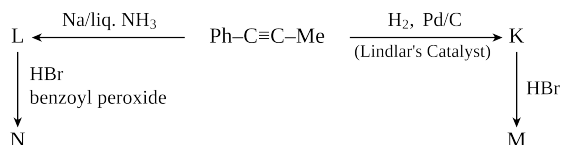
NEET HYDROCARBONS — CHEMICAL PROPERTIES OF ALKYNES — PYQS

Max. Marks: 28

Questions: 7

Section A (MCQ)

- Q.1** Consider the following reaction sequences and choose the correct option. [RE-NEET (UG) 2026]

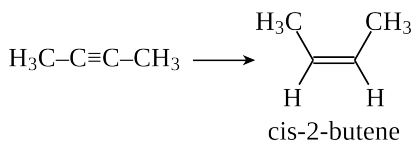


- (1) M and N are stereoisomers
- (2) K and L are geometrical isomers
- (3) K and L are enantiomers
- (4) M and N are geometrical isomers

Scan or tap for the full solution



- Q.2** The most suitable reagent for the following conversion, is : [NEET (UG) 2019]

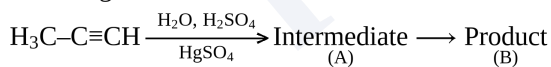


- (1) Zn / HCl
- (2) $\text{Hg}^{2+}/\text{H}^+, \text{H}_2\text{O}$
- (3) Na / liquid NH_3
- (4) $\text{H}_2, \text{Pd/C}$, quinoline

Scan or tap for the full solution



- Q.3** Predict the correct intermediate and product in the following reaction :



[NEET 2017]

- | | |
|---|---|
| (1) A : $\text{H}_3\text{C}-\underset{\text{OH}}{\text{C}}=\text{CH}_2$ | B : $\text{H}_3\text{C}-\underset{\text{SO}_4}{\text{C}}=\text{CH}_2$ |
| (2) A : $\text{H}_3\text{C}-\underset{\text{O}}{\text{C}}-\text{CH}_3$ | B : $\text{H}_3\text{C}-\text{C}\equiv\text{CH}$ |
| (3) A : $\text{H}_3\text{C}-\underset{\text{OH}}{\text{C}}=\text{CH}_2$ | B : $\text{H}_3\text{C}-\underset{\text{O}}{\text{C}}-\text{CH}_3$ |
| (4) A : $\text{H}_3\text{C}-\underset{\text{SO}_4}{\text{C}}=\text{CH}_2$ | B : $\text{H}_3\text{C}-\underset{\text{O}}{\text{C}}-\text{CH}_3$ |

Scan or tap for the full solution



- Q.4** Which of the following reagents will be able to distinguish between 1-butyne and 2-butyne?

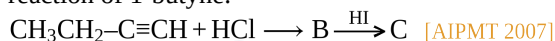
[AIPMT 2012 (Mains)]

- (1) NaNH_2 (2) HCl (3) O_2 (4) Br_2

Scan or tap for the full solution



- Q.5** Predict the product C obtained in the following reaction of 1-butyne.



- (1) $\text{CH}_3-\text{CH}_2-\text{CH}_2-\underset{\text{Cl}}{\overset{\text{I}}{\text{C}}}-\text{H}$
- (2) $\text{CH}_3-\text{CH}_2-\underset{\text{Cl}}{\overset{\text{I}}{\text{CH}}}-\text{CH}_2\text{Cl}$
- (3) $\text{CH}_3\text{CH}_2-\underset{\text{Cl}}{\overset{\text{I}}{\text{C}}}-\text{CH}_3$
- (4) $\text{CH}_3-\underset{\text{Cl}}{\overset{\text{I}}{\text{CH}}}-\text{CH}_2\text{CH}_2\text{I}$

Scan or tap for the full solution



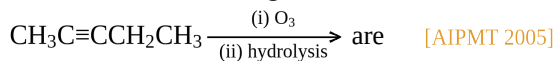
- Q.6** The correct order regarding the electronegativity of hybrid orbitals of carbon is [AIPMT 2006]

- (1) $\text{sp} < \text{sp}^2 < \text{sp}^3$
- (2) $\text{sp} > \text{sp}^2 < \text{sp}^3$
- (3) $\text{sp} > \text{sp}^2 > \text{sp}^3$
- (4) $\text{sp} < \text{sp}^2 > \text{sp}^3$

Scan or tap for the full solution



- Q.7** Products of the following reaction :



- (1) $\text{CH}_3\text{COOH} + \text{CO}_2$
- (2) $\text{CH}_3\text{COOH} + \text{HOOC}\cdot\text{CH}_2\text{CH}_3$
- (3) $\text{CH}_3\text{CHO} + \text{CH}_3\text{CH}_2\text{CHO}$
- (4) $\text{CH}_3\text{COOH} + \text{CH}_3\text{COCH}_3$

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2	3	4	5	6	7				
Ans.	2	4	3	1	3	3	2				