

PYQSide

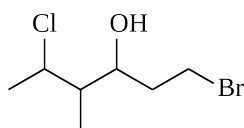
NEET ORGANIC CHEMISTRY – SOME BASIC PRINCIPLES AND TECHNIQUES — IUPAC NOMENCLATURE OF COMPOUNDS WITH FUNCTIONAL GROUPS — PYQS

Max. Marks: 28

Questions: 7

Section A (MCQ)

- Q.1** The correct IUPAC name of the following compound is [NEET (UG) 2022]

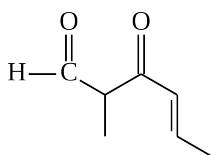


- (1) 1-bromo-5-chloro-4-methylhexan-3-ol
- (2) 6-bromo-2-chloro-4-methylhexan-4-ol
- (3) 1-bromo-4-methyl-5-chlorohexan-3-ol
- (4) 6-bromo-4-methyl-2-chlorohexan-4-ol

Scan or tap for the full solution



- Q.2** The IUPAC name of the compound [NEET 2017]

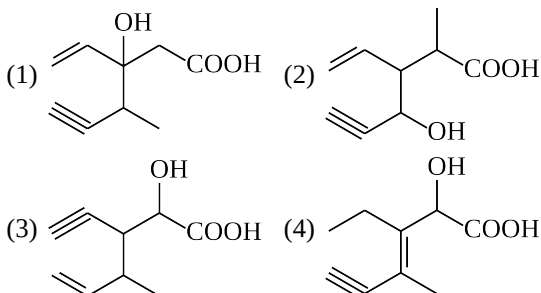


- (1) 5-formylhex-2-en-3-one
- (2) 5-methyl-4-oxohex-2-en-5-al
- (3) 3-keto-2-methylhex-5-enal
- (4) 3-keto-2-methylhex-4-enal

Scan or tap for the full solution



- Q.3** Structure of the compound whose IUPAC name is 3-Ethyl-2-hydroxy-4-methylhex-3-en-5-ynoic acid is [NEET 2013]



Scan or tap for the full solution



- Q.4** Which nomenclature is not according to IUPAC system? [AIPMT 2012 (Prelims)]

- (1) $\text{Br}-\text{CH}_2-\text{CH}=\text{CH}_2$
1-Bromoprop-2-ene

- (2) $\text{CH}_3-\text{CH}_2-\underset{\text{Br}}{\overset{\text{CH}_3}{\text{C}}}-\text{CH}_2-\underset{\text{CH}_3}{\text{CH}}-\text{CH}_3$
4-Bromo-2,4-dimethylhexane

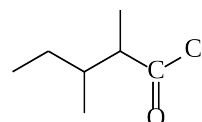
- (3) $\text{CH}_3-\underset{\text{CH}_3}{\text{CH}}-\underset{\text{C}_6\text{H}_5}{\text{CH}}-\text{CH}_2-\text{CH}_3$
2-Methyl-3-phenylpentane

- (4) $\text{CH}_3-\underset{\text{O}}{\underset{\parallel}{\text{C}}}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{COOH}$
5-Oxohexanoic acid

Scan or tap for the full solution



- Q.5** The IUPAC name of

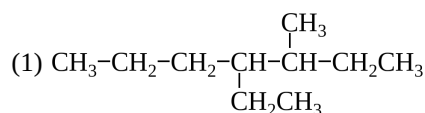


- is [AIPMT 2006]
- (1) 1-chloro-1-oxo-2, 3-dimethylpentane
 - (2) 2-ethyl-3-methylbutanoyl chloride
 - (3) 2, 3-dimethylpentanoyl chloride
 - (4) 3, 4-dimethylpentanoyl chloride.

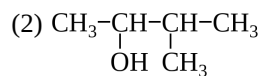
Scan or tap for the full solution



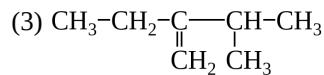
- Q.6** Names of some compounds are given. Which one is not in IUPAC system? [AIPMT 2005]



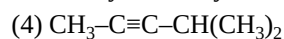
3-Methyl-4-ethylheptane



3-Methyl-2-butanol



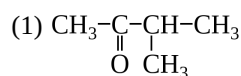
2-Ethyl-3-methylbut-1-ene



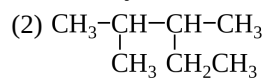
4-Methyl-2-pentyne

Scan or tap for the
full solution

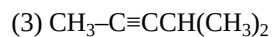
Q.7 The incorrect IUPAC name is [AIPMT 2001]



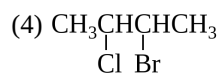
2-methyl-3-butanone



2,3-dimethylpentane



4-methyl-2-pentyne



2-bromo-3-chlorobutane

Scan or tap for the
full solution

ANSWER KEY

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