

JEE MAIN : CHAPTER WISE TEST-9

SUBJECT :- CHEMISTRY

DATE.....

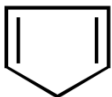
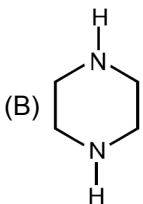
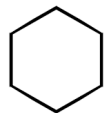
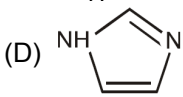
CLASS :- 11th

NAME.....

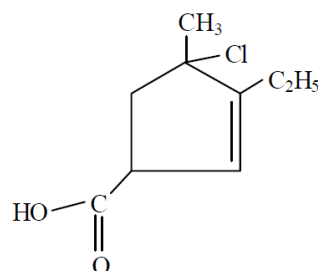
CHAPTER :- NOMENCLATURE

SECTION.....

(SECTION A)

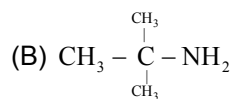
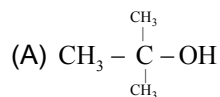
1. Compound having open chain is -
 (A) Pentane (B) Isopentane
 (C) Neopentane (D) All the above
2. Which of the following is saturated homocyclic compound ?
- (A)  (B) 
- (C)  (D) 
3. The correct IUPAC name of $\text{CH}_3 - \text{CH}_2 - \underset{\text{CH}_2}{\text{C}} - \text{COOH}$ is :
 (A) 2-Methylbutanoic acid
 (B) 2-Ethylpropanoic acid
 (C) 2-Carboxy-1-butene
 (D) None of the above
4. What is not true about homologous series ?
 (A) All the members have similar chemical properties
 (B) They have identical physical properties
 (C) They can be represented by a general formula
 (D) Adjacent members differ in molecular mass by 14
5. The IUPAC name of $\text{CH}_3 - \text{C} \equiv \text{C} - \text{CH}_2 - \text{CH}_3$ is
 (A) Ethyne (B) 1-Butyne
 (C) 2-Butyne (D) none of these
6. As per IUPAC rules, which one of the following groups, will be regarded as the principal functional group?
 (A) $-\text{C} \equiv \text{C}-$ (B) $-\text{OH}$
 (C) $-\text{C}(=\text{O})-$ (D) $-\text{C}(=\text{O})-\text{H}$
7. The IUPAC name of compound $\text{CH}_3 - \overset{\text{O}}{\parallel}{\text{C}} - \underset{\text{CH}_3}{\text{CH}} - \underset{\text{CHO}}{\text{CH}} - \overset{\text{CH}_3}{\text{C}} - \text{H} - \text{CH}_3$ is :
 (A) 3,5-Dimethyl-4-Formylpentanone
 (B) 1-Isopropyl-2-methyl-4-oxobutanal
 (C) 2-(1-Methylethyl)-3-methyl-4-oxopentanal
 (D) None of the above

8. IUPAC name of the following is -



- (A) 3-Chloro-3-methyl-4-chlorocyclopent-4-en - carboxylic acid
 (B) 4-Ethyl-3-chloro-3-methylcyclopent-5-en carboxylic acid
 (C) 3-Formyl-5-chloro-5-methyl-1-ethylcyclopentene
 (D) 4-Chloro-3-ethyl-4-methylcyclopent-2-ene carboxylic acid
9. The structure of Isobutyro-nitrile is : -
 (A) $\text{CH}_3 - \underset{\text{CH}_3}{\text{CH}} - \text{CH}_2 - \text{CN}$
 (B) $\text{CH}_3 - \underset{\text{CH}_3}{\text{CH}} - \text{CH}_2 - \overset{\rightarrow}{\text{C}} \equiv \text{N}$
 (C) $\text{CH}_3 - \underset{\text{CH}_3}{\text{CH}} - \text{CN}$
 (D) $\text{CH}_3 - \underset{\text{CH}_3}{\text{CH}} - \overset{\rightarrow}{\text{N}} = \text{C}$
10. In which of the following compounds, the carbon chain has been correctly numbered ?
 (A) $\overset{7}{\text{C}}\text{H}_3 - \overset{6}{\text{C}}\text{H}_2 - \overset{5}{\text{C}}\text{H} - \overset{4}{\text{C}}\text{H} - \overset{3}{\text{C}}\text{H}_2 - \overset{2}{\text{C}}\text{H}_2 - \overset{1}{\text{C}}\text{H}_3$
 (B) $\overset{1}{\text{C}}\text{H}_3 - \overset{2}{\text{C}}\text{H}_2 - \overset{3}{\text{C}} = \text{CH} - \text{CH}_3$
 (C) $\overset{5}{\text{C}}\text{H}_3 - \overset{4}{\text{C}}\text{H}_2 - \overset{3}{\text{C}}\text{H} - \overset{2}{\text{C}} \equiv \text{CH}$
 (D) $\text{CH}_3 - \overset{\text{CH}_3}{\underset{\text{CH}_3}{\text{C}}} - \overset{3}{\text{C}}\text{H} = \overset{2}{\text{C}}\text{H} - \overset{1}{\text{C}}\text{H}_3$

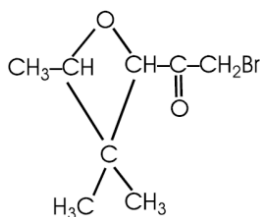
11. Examine the following structures :



Which of the following statement is correct ?

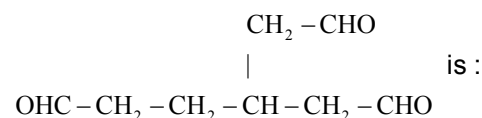
- (A) A is tertiary alcohol while B is tertiary amine
 (B) A is primary alcohol while B is primary amine
 (C) A is tertiary alcohol while B is primary amine
 (D) A is primary alcohol while B is tertiary amine

12. IUPAC name of the following compound is



- (A) 1-Bromo-3,5-epoxy-4,4-dimethyl-2-hexanone
 (B) 1-Bromo-3,3-dimethyl-2-oxo-2-hexanone
 (C) 1-Bromo-3,3-dimethyl acetone
 (D) 1-Bromo-4,4-dimethyl-5-oxo-hexanone

13. The IUPAC name of

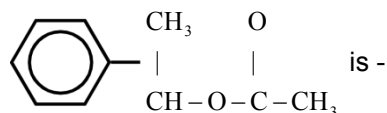


- (A) 4,4-Di(formylmethyl) butanal
 (B) 2-(Formylmethyl)butane-1,4-dicarbaldehyde
 (C) Hexane-3-acetal-1,6-dial
 (D) 3-(Formylmethyl)hexane-1,6-dial

14. How many 1° carbon atom will be present in a simplest hydrocarbon having two 3° and one 2° carbon atom ?

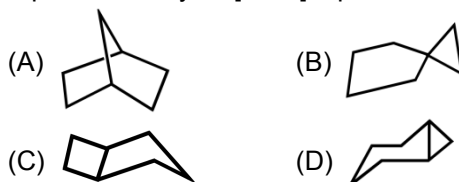
- (A) 3 (B) 4 (C) 5 (D) 6

15. The IUPAC name of

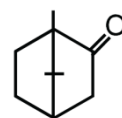


- (A) 1-Phenyl-1-acetyloxyethane
 (B) 1-Acetoxyethylbenzene
 (C) 1-Phenylethyl ethanoate
 (D) 1-Methylbenzyl acetate

16. Which of the following structures represents Bicyclo [3.2.0]heptane ?



17. The IUPAC name of camphor is -



- (A) 6-Oxo-1,2,2-trimethylbicyclo [2.2.1] heptane
 (B) 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one
 (C) 1,5,5-Trimethylbicyclo[2.2.1]heptan-2-one
 (D) 1,7,7-Trimethylbicyclo[2.1.2]heptan-2-one

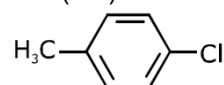
18. The correct decreasing order of priority for the functional groups of organic compounds in the IUPAC system of nomenclature is

- (A) $-\text{COOH}$, $-\text{SO}_3\text{H}$, $-\text{CONH}_2$, $-\text{CHO}$
 (B) $-\text{SO}_3\text{H}$, $-\text{COOH}$, $-\text{CONH}_2$, $-\text{CHO}$
 (C) $-\text{CHO}$, $-\text{COOH}$, $-\text{SO}_3\text{H}$, $-\text{CONH}_2$
 (D) $-\text{CONH}_2$, $-\text{CHO}$, $-\text{SO}_3\text{H}$, $-\text{COOH}$

19. The IUPAC name of neopentane is

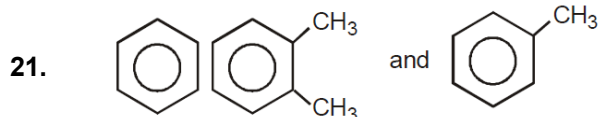
- (A) 2-Methylbutane
 (B) 2,2-Dimethylpropane
 (C) 2-Methylpropane
 (D) 2,2-Dimethylbutane

20. The IUPAC name(s) of the following compound is(are)



- (A) 4-Methylchlorobenzene
 (B) 4-Chlorotoluene
 (C) 1-Chloro-5-methylbenzene
 (D) 1-Methyl-4-chlorobenzene

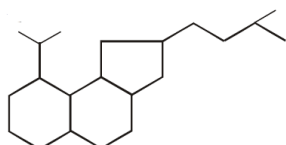
(SECTION B)



Number of secondary carbon atoms present in the above compounds are respectively p, q, & r. What is the value of $p + q + r$?

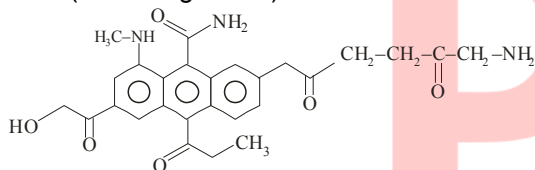
22. How many secondary carbon atoms does methyl cyclopropane have ?

23. Find the sum of number of 3° and 2° carbon atoms in the following compound are :



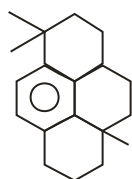
24. The total number of secondary H-atoms in the structure given below are :

25. How many different type of functional groups are present in following structure (Excluding $C = C$)



26. How many carbon atoms are in the simplest alkyne having two side chains?

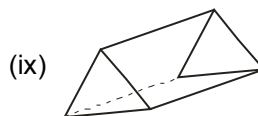
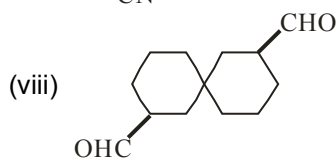
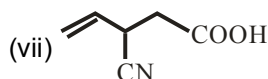
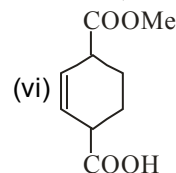
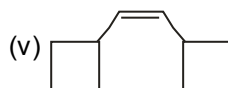
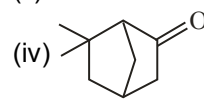
27. Total number of α -hydrogen in the given compound is:



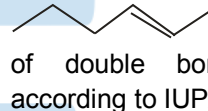
28. How many compounds have double bond equivalent = 4 ?

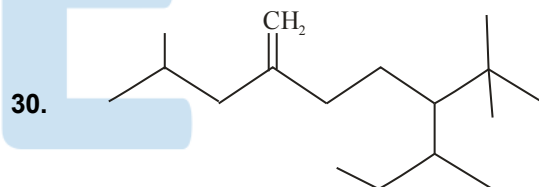
(i) Benzene (ii) Acetic acid

(iii) Ph - Ph



(x) Cyclohexane carboxylic anhydride

29.  mention correct position of double bond in this compound according to IUPAC rule.



Number of carbon atoms in parent 'C' chain