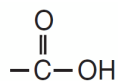


1. Which compound yields H^+ ions as the only positive ions in an aqueous solution?

- A) KOH B) NaOH
C) CH_3OH D) CH_3COOH

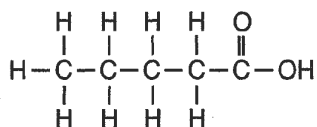
2. Given a formula of a functional group:



An organic compound that has this functional group is classified as

- A) an acid B) an aldehyde
C) an ester D) a ketone

3. Given the formula for an organic compound:



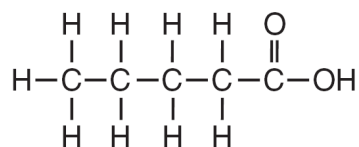
This compound is classified as an

- A) aldehyde B) amine
C) ester D) organic acid

4. What is the total number of carbon atoms in a molecule of ethanoic acid?

- A) 1 B) 2 C) 3 D) 4

5. Given the structural formula:



What is the IUPAC name of this compound?

- A) pentanal B) pentanol
C) methyl pentanoate D) pentanoic acid

6. Which of these compounds has chemical properties most similar to the chemical properties of ethanoic acid?

- A) $\text{C}_3\text{H}_7\text{COOH}$ B) $\text{C}_2\text{H}_5\text{OH}$
C) $\text{C}_2\text{H}_5\text{COOC}_2\text{H}_5$ D) $\text{C}_2\text{H}_5\text{OC}_2\text{H}_5$

7. The functional group $-\text{COOH}$ is found in

- A) esters B) aldehydes
C) alcohols D) organic acids

8. Which formula represents ethanoic acid?

- A) CH_3CHO B) CH_3COOH
C) $\text{CH}_3\text{CH}_2\text{COOH}$ D) $\text{CH}_3\text{CH}_2\text{CHO}$

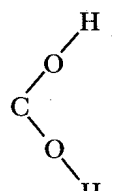
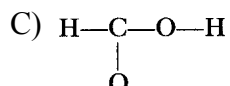
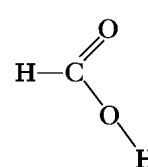
9. Which compound is an acid?

- A) CH_3COOH B) $\text{CH}_3\text{COOCH}_3$
C) $\text{C}_2\text{H}_5\text{OH}$ D) $\text{CH}_3\text{CHOHCH}_3$

10. Which organic compound is classified as an acid?

- A) $\text{CH}_3\text{CH}_2\text{COOH}$ B) $\text{CH}_3\text{CH}_2\text{OH}$
C) $\text{C}_{12}\text{H}_{22}\text{O}_{11}$ D) $\text{C}_6\text{H}_{12}\text{O}_6$

11. If a compound has a molecular formula of CH_2O_2 , then its structural formula must be

- A) $\text{H}-\text{O}-\text{C}-\text{O}-\text{H}$ B) 
- C)  D) 

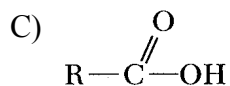
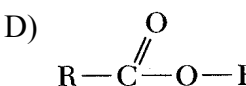
12. Which statement is true for a compound whose formula is $\text{CH}_3\text{CH}_2\text{COOH}$?

- A) It is an alcohol.
B) It is an acid.
C) Its solution turns litmus blue.
D) Its solution turns phenolphthalein pink.

13. The general formula $\text{R}-\text{COOH}$ represents a class of compounds called

- A) alkanes B) alkenes
C) acids D) alcohols

14. Which is the general formula for an organic acid?

- A) $\text{R}-\text{OH}$ B) $\text{R}-\text{O}-\text{R}$
C)  D) 

15. Which organic compound is a weak electrolyte?

- A) ethanoic acid
- B) carbon tetrachloride
- C) pentane
- D) benzene

16. Which general formula represents an organic acid?

- A) $R-OH$
- B) $R-CHO$
- C) R_1-O-R_2
- D) $R-COOH$

17. The formula of methanoic acid is

- A) $HCHO$
- B) $HCOOH$
- C) CH_3OH
- D) $HCOOCH_3$

18. A solution of acetic acid

- A) contains molecules only
- B) has a pH of 7
- C) turns red litmus to blue
- D) conducts electricity

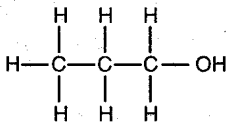
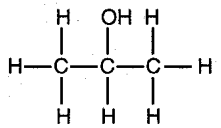
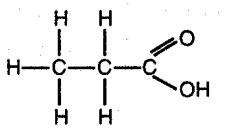
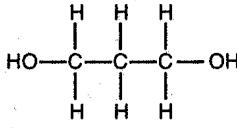
19. Which formula represents an organic acid?

- A) $HCOOCH_3$
- B) CH_3CH_2OH
- C) CH_3COCH_3
- D) $HCOOH$

20. In an aqueous solution, which substance yields hydrogen ions as the only positive ions?

- A) C_2H_4
- B) CH_3COOH
- C) CH_4
- D) KOH

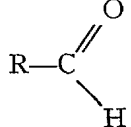
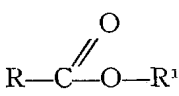
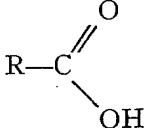
21. Which structural formula represents an organic acid?

- A) 
- B) 
- C) 
- D) 

22. Which formula represents an organic acid?

- A) CH_3COOH
- B) CH_3CHO
- C) CH_3COCH_3
- D) CH_3OH

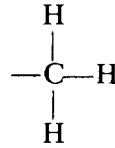
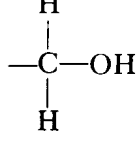
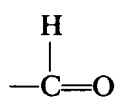
23. The general formula of organic acids can be represented as

- A) 
- B) 
- C) $R-OH$
- D) 

24. Which formula represents ethanoic acid?

- A) CH_3OCH_3
- B) CH_3CH_2OH
- C) $HCOOCH_3$
- D) CH_3COOH

25. Which functional group is found in all organic acids?

- A) 
- B) 
- C) 
- D) 