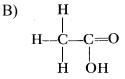
- 1. Which functional group, when attached to a chain of carbon atoms, will produce an organic molecule with the characteristic properties of an aldehyde?
 - A) O || -C-OH
- B) O || -C-H
- C) O | | -c-
- D) OH
- 2. The general formula for aldehydes is
- B) O // R—C OH
- C) Q R_1 —C— R_2
- D) $R_1 O R_2$
- 3. The IUPAC name of an aldehyde has the ending
 - A) -ol
- B) -al
- C) -oate D) -oic
- 4. Which is the structural formula of an aldehyde?
 - A) H H-C-O
- В) Н-С ОН
- H-C H
- D) H H H-C-O-C-H H H
- 5. Which is the common name for the organic compound whose IUPAC name is methanal?
 - A) formaldehyde
- B) acetaldehyde
- C) formic acid
- D) acetic acid
- 6. Which structural formula represents an aldehyde?
- C) H O H C H H C H
- D) H H H—C—C—OH | | H H

- 7. Methanal is the IUPAC name for an
 - A) aldehyde
- B) alcohol
- C) acid
- D) ether
- 8. Given the formula for a compound:

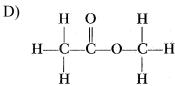
A chemical name for this compound is

- A) butanal
- B) butanol
- C) butanone
- D) butanoic acid
- 9. Which formula represents a ketone?
 - A) HCOOH
- B) HCHO
- C) CH₃COCH₃
- D) CH₃CH₂OH
- 10. An example of a ketone is
 - A) propanone
- B) propane
- C) propanal
- D) propanol
- 11. What is the name of the compound with the following formula?

- A) propanone
- B) propanol
- C) propanal
- D) propanoic acid
- 12. Which structural formula represents a ketone?
 - A) H H H H H C—C=O



C) H O H | || | H—C—C—C—H | | H H



- 13. Which is the general formula for a ketone?
 - A) R_1 —O— R_2
- B) O \parallel R_1-C-R_2
- C) R-C
- D) O \parallel R_1 —C—O— R_2
- 14. What is the minimum number of carbon atoms a ketone may contain?
 - A) 1
- B) 2
- C) 3
- D) 4
- 15. Which general formula represents a ketone?
 - A) 0 \parallel R_1 —C— R_2
- O R_1 —C—O— R_2
- C) **R—OH**
- D) O // R—C \ OH
- 16. Which atom is bonded to the carbon atom in the functional group of a ketone?
 - A) fluorine
- B) hydrogen
- C) nitrogen
- D) oxygen
- 17. Which general formula represents a ketone?
 - A) O R-C
- B) R-C=O
- R_1-C-R
- D) R_1 —O— R_2
- 18. Which formula represents a ketone?
 - A) CH₃COCH₃
- B) C₂H₅COOCH₃
- C) C₂H₅COOH
- D) CH₃CHO

- 19. Which is the structural formula for propanone (acetone)?
 - A) H H H H-C-C-C-H H OH H

 - C) H H H H-C-C-C-C=O H H H
 - D) H H H
 H-C-C-C-H
 | | |
- 20. What is the IUPAC name of the compound with the following structural formula?

- A) propanone
- B) propanal
- C) butanone
- D) butanal