

<b>CHEMISTRY-12</b>	<b>Chapter#07(Complete) Test: C-1</b>		
	Name:	Class:	ID:
Date: / /	<b>Marks Total: 40</b>	<b>Marks Obtained:</b>	
Time Allowed: 75 Min.			

Maximum Marks: 08      **(OBJECTIVE TYPE)**      Time Allowed: 15 Min.

**NOTE:** Tick The Correct Option:

- The state of hybridization of carbon atom in methane is:  
 (a)  $sp^3$                       (b)  $sp^2$                       (c)  $sp$                       (d)  $dsp^2$
- Select from the following the one which is alcohol:  
 (a)  $CH_3-CH_2-OH$               (b)  $CH_3-O-CH_3$               (c)  $CH_3COOH$               (d)  $CH_3-CH_2-Br$
- The process used to improve the quality of gasoline is called:  
 (a) Thermal cracking      (b) Reforming              (c) Combustion              (d) Steam cracking
- Which one is the heterocyclic compound of oxygen?  
 (a) Pyridine                      (b) Pyrrole                      (c) Furan                      (d) Thiophene
- Both  $CH_3COOH$  and  $HCOOCH_3$  show isomerism:  
 (a) Position                      (b) Chain                      (c) Geometric                      (d) Functional group
- Wohler prepared urea from an inorganic compound:  
 (a) Ammonia                      (b) Ammonium cyanide  
 (c) Ammonium cyanate                      (d) Acetamide
- The crude mineral oil is of \_\_\_\_\_ colour.  
 (a) Blackish                      (b) Greenish                      (c) Brownish                      (d) Bluish
- In cis isomer, the similar groups lie on the \_\_\_\_\_ side of the double bond.  
 (a) Same                      (b) Opposite                      (c) Both                      (d) None

Maximum Marks: 32      **(SUBJECTIVE TYPE)**      Time Allowed: 60 Min.

### SECTION-I

- Q.2: Give brief answers to the following questions: (20)**
- What is the importance of Wohler's work in organic chemistry?
  - What is carbonization or destructive distillation of coal? Indicate three fractions obtained by the carbonization of coal.
  - Define reforming of petroleum.
  - What are hamocyclic or carbocyclic compounds? Give two examples.
  - What are alicyclic compounds? Give two examples.
  - Draw the shape of ethene molecule on the basis of hybridization concept.
  - Define isomers and isomerism.
  - Define tautomerism. Give one example.
  - 1-Butene does not show geometric isomerism while 2-butene shows geometric isomerism, why?
  - What type of structural isomerism is shown by ethers?

### SECTION-II

**NOTE:** Attempt All Questions:

(12)

- Define cracking and explain its types with examples.
- What is meant by functional group? Name some oxygen containing functional groups.
- What is orbital hybridization? Explain  $sp^3$  hybridization of carbon with one example.