

## 6

### NOMENCLATURE OF ORGANIC COMPOUNDS

#### WORK SHEET 1

SI No	STRUCTURAL FORMULA	IUPAC NAME
1	CH <sub>4</sub>	
2	CH <sub>3</sub> -CH <sub>3</sub>	
3	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>3</sub>	
4	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>3</sub>	
5	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>3</sub>	
6	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>3</sub>	

**Give the structures of the following**

1	Methane	
2	Propane	
3	Pentane	
4	Decane	

**Space for rough work**

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*

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NOMENCLATURE OF ORGANIC COMPOUNDSWORK SHEET 2

1	$\begin{array}{c} \text{CH}_3\text{-CH-CH}_3 \\   \\ \text{CH}_3 \end{array}$	
2	$\begin{array}{c} \text{CH}_3\text{-CH-CH}_2\text{-CH}_3 \\   \\ \text{CH}_3 \end{array}$	
3	$\begin{array}{c} \text{CH}_3\text{-CH}_2\text{-CH-CH}_3 \\   \\ \text{CH}_3 \end{array}$	
4	$\begin{array}{c} \text{CH}_3\text{-CH-CH}_2\text{-CH}_2\text{.CH}_3 \\   \\ \text{CH}_3 \end{array}$	
5	$\begin{array}{c} \text{CH}_3\text{-CH}_2\text{-CH-CH}_2\text{.CH}_3 \\   \\ \text{CH}_3 \end{array}$	

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Space for rough work

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*

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NOMENCLATURE OF ORGANIC COMPOUNDSWORK SHEET 3

1	$\begin{array}{c} \text{CH}_3\text{-CH-CH}_3 \\   \\ \text{CH}_2\text{-CH}_3 \end{array}$	
2	$\begin{array}{c} \text{CH}_3\text{-CH-CH}_2\text{-CH}_3 \\   \\ \text{CH}_2\text{-CH}_2\text{-CH}_3 \end{array}$	
3	$\begin{array}{c} \text{CH}_3\text{-CH}_2\text{-CH-CH}_3 \\   \\ \text{CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_3 \end{array}$	
4	$\begin{array}{c} \text{CH}_2\text{-CH}_3 \\   \\ \text{CH}_3\text{-CH-CH}_2\text{-CH}_2\text{-CH}_3 \end{array}$	

**Give the structures of the following**

1	2- Methylhexane	
2	3-Methylpentane	

**Space for rough work**

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*

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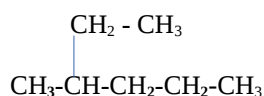
## 6

NOMENCLATURE OF ORGANIC COMPOUNDSWORK SHEET 4

1	$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3-\text{CH}-\text{CH}-\text{CH}_3 \\   \\ \text{CH}_3 \end{array}$	
2	$\begin{array}{c} \text{CH}_3 \quad \text{CH}_3 \\   \quad   \\ \text{CH}_3-\text{CH}-\text{CH}_2-\text{CH}-\text{CH}_3 \end{array}$	
3	$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3-\text{CH}-\text{CH}-\text{CH}_3 \\   \\ \text{CH}_3 \end{array}$	
4	$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3-\text{C}-\text{CH}_3 \\   \\ \text{CH}_3 \end{array}$	

Give the structures of the following

1	2,3-Dimethylhexane	
2	2,2-Dimethylpentane	
3	3,4-Dimethyloctane	
4	3,3-Dimethylpentane	

\* Question:A student wrote the IUPAC name of the compound as **2-Ethyl Butane**. Is it Correct ?

Justify your answer

Your Answer	Reason

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*

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NOMENCLATURE OF ORGANIC COMPOUNDSWORK SHEET 5

1	$\begin{array}{c} \text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH-CH}_2\text{-CH}_3 \\   \\ \text{CH}_2\text{-CH}_3 \end{array}$	
2	$\begin{array}{c} \text{CH}_2\text{-CH}_3 \\   \\ \text{CH}_3\text{-CH}_2\text{-C-CH}_2\text{-CH}_3 \\   \\ \text{CH}_2\text{-CH}_3 \end{array}$	
3	$\begin{array}{c} \text{CH}_2\text{-CH}_3 \\   \\ \text{CH}_3\text{-CH}_2\text{-CH-CH-CH}_2\text{-CH}_3 \\   \\ \text{CH}_2\text{-CH}_3 \end{array}$	
4	$\begin{array}{c} \text{CH}_2\text{-CH}_3 \\   \\ \text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-C-CH}_2\text{-CH}_3 \\   \\ \text{CH}_2\text{-CH}_3 \end{array}$	

Give the structures of the following

1	3,3-Di ethylhexane	
2	3,3-Di ethylpentane	
3	3,4-Di ethyloctane	

Space for rough work

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*

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NOMENCLATURE OF ORGANIC COMPOUNDSWORK SHEET 6

1	$  \begin{array}{c}  \text{CH}_3 \\    \\  \text{CH}_3\text{-CH}_2\text{-CH-CH-CH}_3 \\    \\  \text{CH}_2\text{-CH}_3  \end{array}  $	
2	$  \begin{array}{c}  \text{CH}_3 \quad \text{CH}_3 \\    \quad   \\  \text{CH}_3\text{-CH}_2\text{-CH-CH-CH-CH}_3 \\    \\  \text{CH}_3  \end{array}  $	
3	$  \begin{array}{c}  \text{CH}_3 \quad \text{CH}_3 \quad \text{CH}_3 \\    \quad   \quad   \\  \text{CH}_3\text{-CH-CH-CH-CH-CH}_3 \\    \\  \text{CH}_3  \end{array}  $	
4	$  \begin{array}{c}  \text{CH}_3 \quad \text{CH}_3 \quad \text{CH}_3 \\    \quad   \quad   \\  \text{CH}_3\text{-CH-CH-CH}_2\text{-CH-CH}_3  \end{array}  $	

Space for rough work

*C <sub>1</sub> - METH * C <sub>2</sub> - ETH * C <sub>3</sub> - PROP * C <sub>4</sub> - BUT * C <sub>5</sub> - PENT * C <sub>6</sub> - HEX * C <sub>7</sub> - HEPT * C <sub>8</sub> - OCT * C <sub>9</sub> - NON * C <sub>10</sub> - DEC *
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NOMENCLATURE OF ORGANIC COMPOUNDSWORK SHEET 7

1	$\begin{array}{c} \text{CH}_2\text{-CH}_3 \\   \\ \text{CH}_3\text{-CH}_2\text{-CH-CH-CH}_3 \\   \\ \text{CH}_3 \end{array}$	
2	$\begin{array}{c} \text{CH}_3 \quad \text{CH}_2\text{-CH}_3 \\   \quad   \\ \text{CH}_3\text{-CH-CH-CH}_2\text{-CH}_2\text{-CH}_3 \end{array}$	
3	$\begin{array}{c} \text{CH}_3 \quad \text{CH}_3 \\   \quad   \\ \text{CH}_3\text{-CH-CH-CH-CH}_2\text{-CH}_3 \\   \\ \text{CH}_2\text{-CH}_3 \end{array}$	
4	$\begin{array}{c} \text{CH}_3 \quad \text{CH}_3 \quad \text{CH}_2\text{-CH}_3 \\   \quad   \quad   \\ \text{CH}_3\text{-CH-CH-CH-CH}_2\text{-CH}_3 \end{array}$	
5	$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3\text{-CH}_2\text{-CH-CH-CH}_2\text{-CH}_3 \\   \\ \text{CH}_2\text{-CH}_3 \end{array}$	* Only for advanced learning

Give the structures of the following

1	2,3,3-Trimethylhexane	
2	3-Ethyl-2-methylpentane	
3	3-Ethyl-2,2-Dimethylpentane	
4	3,3-Diethyl-2,2-Dimethyloctane	

Space for rough work

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*

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### NOMENCLATURE OF ORGANIC COMPOUNDS

#### WORK SHEET 8

1	$\text{CH}_2=\text{CH}_2$	
2	$\text{CH}_3-\text{CH}=\text{CH}_2$	
3	$\text{CH}_3-\text{CH}_2-\text{CH}=\text{CH}_2$	
4	$\text{CH}_3-\text{CH}=\text{CH}-\text{CH}_3$	
5	$\text{CH}_2=\text{CH}-\text{CH}_2-\text{CH}_3$	
6	$\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{CH}=\text{CH}-\text{CH}_3$	

**Give the structures of the following**

1	Ethene	
2	Hex-3-ene	
3	Hex-2-ene	

**Space for rough work**

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*

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### NOMENCLATURE OF ORGANIC COMPOUNDS

#### WORK SHEET 9

1	$\text{CH} \equiv \text{CH}$	
2	$\text{CH}_3\text{-C} \equiv \text{CH}$	
3	$\text{CH}_3\text{-CH}_2\text{-C} \equiv \text{CH}$	
4	$\text{CH}_3\text{-C} \equiv \text{C-CH}_3$	
5	$\text{CH} \equiv \text{C-CH}_2\text{-CH}_3$	
6	$\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-C} \equiv \text{C-CH}_3$	

**Give the structures of the following**

1	Ethyne	
2	Propyne	
3	But-1-yne	
4	But-2-yne	

**Space for rough work**

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*

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NOMENCLATURE OF ORGANIC COMPOUNDSFUNCTIONAL GROUPS

Sl No	FUNCTIONAL GROUP	STRUCTURE	NAME	NAME OF THE COMPOUND	IUPAC NAME
1	-OH	-OH	Hydroxy	Alcohol	_____ol
2	-CHO	$\begin{array}{c} \text{O} \\    \\ \text{--C--H} \end{array}$	Aldehyde	Aldehyde	_____al
3	-CO-	$\begin{array}{c} \text{O} \\    \\ \text{--C--} \end{array}$	Keto group	Ketone	_____one
4	-COOH	$\begin{array}{c} \text{O} \\    \\ \text{--C--OH} \end{array}$	Carboxylic	Carboxylic Acid	_____oic acid
5	-NH <sub>2</sub>	-NH <sub>2</sub>	Amino	Amine	_____an amine
6	-F /-Cl / -Br /-I	-F /-Cl / -Br /-I	Halo	Halo	Halo_____
7	-O-	-O-	Alkoxy	Ether	Alkoxyalkane

WORK SHEET 10

*C <sub>1</sub> - METH * C <sub>2</sub> - ETH * C <sub>3</sub> - PROP * C <sub>4</sub> - BUT * C <sub>5</sub> - PENT * C <sub>6</sub> - HEX * C <sub>7</sub> - HEPT * C <sub>8</sub> - OCT * C <sub>9</sub> - NON * C <sub>10</sub> - DEC *
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NOMENCLATURE OF ORGANIC COMPOUNDS

1	CH <sub>3</sub> -OH	
2	CH <sub>3</sub> -CH <sub>2</sub> -OH	
3	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -OH	
4	$\begin{array}{c} \text{CH}_3\text{-CH-CH}_3 \\   \\ \text{OH} \end{array}$	
5	$\begin{array}{c} \text{CH}_3\text{-CH}_2\text{CH}_2\text{-CH-CH}_3 \\   \\ \text{OH} \end{array}$	

**Give the structures of the following**

1	Ethanol	
2	Propan – 1- ol	
3	Propan – 2- ol	

\* Can you write Propan -3 -ol? Give reason.

Your Answer	Reason

**Space for rough work**

WORK SHEET 11

1	H-CHO	
---	-------	--

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub>- OCT \* C<sub>9</sub> NON \* C<sub>10</sub> - DEC \*

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### NOMENCLATURE OF ORGANIC COMPOUNDS

2	CH <sub>3</sub> -CHO	
3	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CHO	

**Give the structures of the following**

1	Propanal	
2	Pentanal	

#### **WORK SHEET 12**

1	CH <sub>3</sub> -CO- CH <sub>3</sub>	
2	CH <sub>3</sub> -CO- CH <sub>2</sub> -CH <sub>3</sub>	
3	CH <sub>3</sub> -CO-CH <sub>2</sub> -CH <sub>3</sub>	
4	CH <sub>3</sub> -CO-CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>3</sub>	
5	CH <sub>3</sub> -CH <sub>2</sub> -CO-CH <sub>2</sub> .CH <sub>3</sub>	

**Give the structures of the following**

1	Propanone	
2	Butanone	
3	Pentan-3-one	

**Space for rough work**

#### **WORK SHEET 13**

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*

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### NOMENCLATURE OF ORGANIC COMPOUNDS

1	HCOOH	
2	CH <sub>3</sub> -COOH	
3	CH <sub>3</sub> -CH <sub>2</sub> -COOH	
4	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -COOH	
5	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -COOH	

**Give the structures of the following**

1	Hexanoic acid	
2	Propanoic acid	
3	Butanoic acid	

**Space for rough work**

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*

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NOMENCLATURE OF ORGANIC COMPOUNDSWORK SHEET 14

1	CH <sub>3</sub> -Cl	
2	CH <sub>3</sub> -CH <sub>2</sub> -Cl	
3	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -Cl	
4	$\begin{array}{c} \text{CH}_3\text{-CH-CH}_3 \\   \\ \text{Cl} \end{array}$	
5	$\begin{array}{c} \text{CH}_3\text{-CH}_2\text{CH}_2\text{-CH-CH}_3 \\   \\ \text{Cl} \end{array}$	
6	CH <sub>3</sub> -Br	
7	CH <sub>3</sub> -CH <sub>2</sub> -I	
8	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -Br	
9	$\begin{array}{c} \text{CH}_3\text{-CH-CH}_3 \\   \\ \text{Br} \end{array}$	
10	$\begin{array}{c} \text{CH}_3\text{-CH}_2\text{CH}_2\text{-CH-CH}_3 \\   \\ \text{Br} \end{array}$	

**Give the structures of the following**

1	1- Chloropropane	
2	2- Chloropropane	
3	2 - Bromobutane	

**Space for rough work**

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*

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NOMENCLATURE OF ORGANIC COMPOUNDSWORK SHEET 15

1	$\begin{array}{c} \text{Cl} \quad \text{Cl} \\   \quad   \\ \text{CH}_3\text{-CH-CH-CH}_3 \end{array}$	
2	$\begin{array}{c} \text{Cl} \quad \quad \quad \text{Cl} \\   \quad \quad \quad   \\ \text{CH}_3\text{-CH-CH}_2\text{-CH-CH}_3 \end{array}$	
3	$\begin{array}{c} \text{Br} \quad \text{Br} \\   \quad   \\ \text{CH}_3\text{-CH- C-CH}_3 \\   \\ \text{Br} \end{array}$	
4	$\begin{array}{c} \text{Cl} \\   \\ \text{CH}_3\text{-C-CH}_3 \\   \\ \text{Cl} \end{array}$	

Give the structures of the following

1	2,2- Dichlorobutane	
2	2,3- Dibromopentane	
3	2,2,3- Trichlorobutane	

Space for rough work

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*

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NOMENCLATURE OF ORGANIC COMPOUNDSWORK SHEET 16

1	CH <sub>3</sub> -NH <sub>2</sub>	
2	CH <sub>3</sub> -CH <sub>2</sub> -NH <sub>2</sub>	
3	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -NH <sub>2</sub>	
4	$\begin{array}{c} \text{CH}_3\text{-CH-CH}_3 \\   \\ \text{NH}_2 \end{array}$	
5	$\begin{array}{c} \text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH-CH}_2\text{-CH}_3 \\   \\ \text{NH}_2 \end{array}$	

Give the structures of the following

1	Propan – 2- amine	
2	Butan -2-amine	
3	Pentan -3- amine	

Space for rough work

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*

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### NOMENCLATURE OF ORGANIC COMPOUNDS

#### WORK SHEET 17

1	CH <sub>3</sub> -O-CH <sub>3</sub>	
2	CH <sub>3</sub> -CH <sub>2</sub> -O-CH <sub>2</sub> -CH <sub>3</sub>	
3	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -O-CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>3</sub>	
4	CH <sub>3</sub> -O-CH <sub>2</sub> -CH <sub>3</sub>	
5	CH <sub>3</sub> -CH <sub>2</sub> -O-CH <sub>3</sub>	
6	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -O-CH <sub>2</sub> -CH <sub>3</sub>	

**Give the structures of the following**

1	Ethoxyethane	
2	Methoxypropane	
3	Ethoxybutane	

**Space for rough work**

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*

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## 6

**NOMENCLATURE OF ORGANIC COMPOUNDS****For Advanced Learning (Page 208 of Teacher Text)****WORK SHEET 18**

The order of priority among the above mentioned functional groups is  
**COOH> -CHO> CO > OH>NH<sub>2</sub>> Alkenes> Alkynes**

Alkyl groups and Alkoxy groups are always prefixes in poly functional compounds.

1	$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3\text{-CH-CH}_2\text{-CH}_2\text{-OH} \end{array}$	
2	$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3\text{-C-CH}_2\text{-CH}_2\text{-OH} \\   \\ \text{CH}_3 \end{array}$	

**Give the structures of the following**

1	3-methyl-butan-1-ol	
2	2-methyl-butan-1-ol	
3	2-methyl-butan-2-ol	

**Space for rough work**

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*

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## 6

NOMENCLATURE OF ORGANIC COMPOUNDSAnswers / HintsWORK SHEET 1

1	CH <sub>4</sub>	Methane
3	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>3</sub>	Butane
6	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>3</sub>	Octane

WORK SHEET 2

1	$\begin{array}{c} \text{CH}_3\text{-CH-CH}_3 \\   \\ \text{CH}_3 \end{array}$	2-Methylpropane
2	$\begin{array}{c} \text{CH}_3\text{-CH-CH}_2\text{-CH}_3 \\   \\ \text{CH}_3 \end{array}$	2-Methylbutane
3	$\begin{array}{c} \text{CH}_3\text{-CH}_2\text{-CH-CH}_3 \\   \\ \text{CH}_3 \end{array}$	2-Methylbutane
5	$\begin{array}{c} \text{CH}_3\text{-CH}_2\text{-CH-CH}_2\text{-CH}_3 \\   \\ \text{CH}_3 \end{array}$	3-Methylhexane

WORK SHEET 3

1	$\begin{array}{c} \text{CH}_3\text{-CH-CH}_3 \\   \\ \text{CH}_2\text{-CH}_3 \end{array}$	2-Methyl butane	Longest chain
2	$\begin{array}{c} \text{CH}_3\text{-CH-CH}_2\text{-CH}_3 \\   \\ \text{CH}_2\text{-CH}_2\text{-CH}_3 \end{array}$	3-Methyl hexane	Longest chain
3	$\begin{array}{c} \text{CH}_3\text{-CH}_2\text{-CH-CH}_3 \\   \\ \text{CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_3 \end{array}$	3-Methyl heptane	Longest chain

WORK SHEET 4

2	$\begin{array}{c} \text{CH}_3 \quad \text{CH}_3 \\   \quad   \\ \text{CH}_3\text{-CH-CH}_2\text{-CH-CH}_3 \end{array}$	2,4-Dimethylpentane
4	$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3\text{-C-CH}_3 \\   \\ \text{CH}_3 \end{array}$	2,2 - Dimethylpropane

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*

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NOMENCLATURE OF ORGANIC COMPOUNDSWORK SHEET 5

1	$\begin{array}{c} \text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH-CH}_2\text{-CH}_3 \\   \\ \text{CH}_2\text{-CH}_3 \end{array}$	3-Ethylhexane
2	$\begin{array}{c} \text{CH}_2\text{-CH}_3 \\   \\ \text{CH}_3\text{-CH}_2\text{-C-CH}_2\text{-CH}_3 \\   \\ \text{CH}_2\text{-CH}_3 \end{array}$	3,3-Diethylpentane

WORK SHEET 6

1	$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3\text{-CH}_2\text{-CH-CH-CH}_3 \\   \\ \text{CH}_2\text{-CH}_3 \end{array}$	3,4-Dimethylhexane	Longest chain
2	$\begin{array}{c} \text{CH}_3 \quad \text{CH}_3 \\   \quad   \\ \text{CH}_3\text{-CH}_2\text{-CH-CH-CH-CH}_3 \\   \\ \text{CH}_3 \end{array}$	2,3,4-Trimethylhexane	Lowest sum rule
3	$\begin{array}{c} \text{CH}_3 \quad \text{CH}_3 \quad \text{CH}_3 \\   \quad   \quad   \\ \text{CH}_3\text{-CH-CH-CH-CH-CH}_3 \\   \\ \text{CH}_3 \end{array}$	2,3,4,5-Tetramethylhexane	
4	$\begin{array}{c} \text{CH}_3 \quad \text{CH}_3 \quad \text{CH}_2\text{-CH}_3 \\   \quad   \quad   \\ \text{CH}_3\text{-CH-CH-CH}_2\text{-CH-CH}_3 \end{array}$	2,3,5-Trimethylheptane	Longest chain + Lowest sum

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*

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NOMENCLATURE OF ORGANIC COMPOUNDSWORK SHEET 7

1	$\begin{array}{c} \text{CH}_2\text{-CH}_3 \\   \\ \text{CH}_3\text{-CH}_2\text{-CH-CH-CH}_3 \\   \\ \text{CH}_3 \end{array}$	3-Ethyl-2-methylpentane	Lowest sum + Alphabetical order
2	$\begin{array}{c} \text{CH}_3 \quad \text{CH}_2\text{-CH}_3 \\   \quad   \\ \text{CH}_3\text{-CH-CH-CH}_2\text{-CH}_2\text{-CH}_3 \end{array}$	3-Ethyl-2-methylhexane	
3	$\begin{array}{c} \text{CH}_3 \quad \text{CH}_3 \\   \quad   \\ \text{CH}_3\text{-CH-CH-CH-CH}_2\text{-CH}_3 \\   \\ \text{CH}_2\text{-CH}_3 \end{array}$	4-Ethyl-2,3-dimethylhexane	
5	$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3\text{-CH}_2\text{-CH-CH-CH}_2\text{-CH}_3 \\   \\ \text{CH}_2\text{-CH}_3 \end{array}$	<b>3-ethyl-4-methylhexane</b> *(Only for advanced learning)	

WORK SHEET 8

2	$\text{CH}_3\text{-CH=CH}_2$	Propene
3	$\text{CH}_3\text{-CH}_2\text{-CH=CH}_2$	But-1-ene
4	$\text{CH}_3\text{-CH=CH-CH}_3$	But-2-ene
6	$\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH=CH-CH}_3$	Hept-2-ene

WORK SHEET 9

1	$\text{CH} \equiv \text{CH}$	Ethyne
4	$\text{CH}_3\text{-C} \equiv \text{C-CH}_3$	But-2-yne
5	$\text{CH} \equiv \text{C-CH}_2\text{-CH}_3$	But-1-yne
6	$\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-C} \equiv \text{C-CH}_3$	Hept-2-yne

\* **Number** should be given to carbon atoms of normal **alkenes or alkynes having FOUR or more carbon** atoms

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*

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NOMENCLATURE OF ORGANIC COMPOUNDSWORK SHEET 10

2	CH <sub>3</sub> -CH <sub>2</sub> -OH	Ethanol
3	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -OH	Propan – 1-ol
5	$\begin{array}{c} \text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH-CH}_3 \\   \\ \text{OH} \end{array}$	Pentan -2-ol

\* **Number** should be given to **alcohols** having **three or more carbon atoms**

WORK SHEET 11

1	H-CHO	Methanal
3	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CHO	Butanal

\* For straight chain aldehydes, there is **no** need to provide number to each carbon atom . CHO group will always be at one end.

WORK SHEET 12

2	CH <sub>3</sub> -CO- CH <sub>2</sub> -CH <sub>3</sub>	Butanone
3	CH <sub>3</sub> -CO-CH <sub>2</sub> -CH <sub>3</sub>	Butanone
4	CH <sub>3</sub> -CO-CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>3</sub>	Pentan -2-one
5	CH <sub>3</sub> -CH <sub>2</sub> -CO-CH <sub>2</sub> .CH <sub>3</sub>	Pentan -3-one

\* **Number** should be given to straight chain **ketones** having **five or more carbon atoms**

WORK SHEET 13

5	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -COOH	Pentanoicacid
---	--	---------------

\* For straight chain Carboxylic acids, there is **no** need to provide number to each carbon atom

WORK SHEET 14

2	CH <sub>3</sub> -CH <sub>2</sub> -Cl	Chloroethane
3	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -Cl	1- Chloropropane
4	$\begin{array}{c} \text{CH}_3\text{-CH-CH}_3 \\   \\ \text{Cl} \end{array}$	2- Chloropropane
5	$\begin{array}{c} \text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH-CH}_3 \\   \\ \text{Cl} \end{array}$	2- Chloropentane
9	$\begin{array}{c} \text{CH}_3\text{-CH-CH}_3 \\   \\ \text{Br} \end{array}$	2- Bromopropane

\* **Number** should be given to **haloalkanes** having **three or more carbon** atoms

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub>- OCT \* C<sub>9</sub> NON \* C<sub>10</sub> - DEC \*

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NOMENCLATURE OF ORGANIC COMPOUNDSWORK SHEET 15

3	$\begin{array}{c} \text{Br} \quad \text{Br} \\   \quad   \\ \text{CH}_3\text{-CH- C-CH}_3 \\   \\ \text{Br} \end{array}$	2,2,3- Tribromobutane
4	$\begin{array}{c} \text{Cl} \\   \\ \text{CH}_3\text{-C-CH}_3 \\   \\ \text{Cl} \end{array}$	2,2 - Dichloropropane

WORK SHEET 16

2	CH <sub>3</sub> -CH <sub>2</sub> -NH <sub>2</sub>	Ethanamine
3	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -NH <sub>2</sub>	Propan -1-amine
4	$\begin{array}{c} \text{CH}_3\text{-CH-CH}_3 \\   \\ \text{NH}_2 \end{array}$	Propan- 2-amine

\* **Number** should be given to amines having **three or more carbon** atoms

WORK SHEET 17

1	CH <sub>3</sub> -O-CH <sub>3</sub>	Methoxymethane
2	CH <sub>3</sub> -CH <sub>2</sub> -O-CH <sub>2</sub> -CH <sub>3</sub>	Ethoxyethane
4	CH <sub>3</sub> -O-CH <sub>2</sub> -CH <sub>3</sub>	Methoxyethane
5	CH <sub>3</sub> -CH <sub>2</sub> -O-CH <sub>3</sub>	<b>Methoxyethane</b>
6	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -O-CH <sub>2</sub> -CH <sub>3</sub>	<b>Ethoxybutane</b>

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*

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NOMENCLATURE OF ORGANIC COMPOUNDSWORK SHEET 18

For Advanced Learning (Page 208 of Teacher Text)

The order of priority among the above mentioned functional groups is  
**COOH > -CHO > CO > OH > NH<sub>2</sub> > Alkenes > Alkynes**

$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3\text{-CH-CH}_2\text{-CH}_2\text{-OH} \end{array}$	3-Methylbutan -1-ol *
$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3\text{-C-CH}_2\text{-CH}_2\text{-OH} \\   \\ \text{CH}_3 \end{array}$	3,3- Dimethylbutan -1-ol *
$\begin{array}{c} \text{OH} \\   \\ \text{CH}_3\text{-CH-CH}_2\text{-CH}_2\text{-CO-CH}_3 \end{array}$	5- Hydroxyhexan -2-one **(Only for advanced learning)

\* Alkyl groups and Alkoxy groups are always prefixes in poly functional compounds.

\*\* CO group has more preference than OH group.

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*

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## 6

NOMENCLATURE OF ORGANIC COMPOUNDSISOMERISM

Identify the pair/s of isomers from those given below .Also Find the type of isomerism exhibited by them.

No	Structure	Molecular formula
a	$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3\text{-CH}_2\text{-CH-CH-CH}_3 \\   \\ \text{CH}_3 \end{array}$	C <sub>7</sub> H <sub>16</sub>
b	$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3\text{-CH}_2\text{-CH-CH}_3 \end{array}$	.....
c	$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3\text{-CH}_2\text{-C-CH}_2\text{-CH}_3 \\   \\ \text{CH}_3 \end{array}$	.....
d	$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3\text{-CH}_2\text{-CH-CH}_2\text{-CH}_2\text{-CH}_3 \end{array}$	.....
e	CH <sub>3</sub> -O-CH <sub>3</sub>	C <sub>2</sub> H <sub>6</sub> O
f	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>3</sub>	.....
g	CH <sub>3</sub> -CH <sub>2</sub> -OH	.....
h	CH <sub>3</sub> -CH <sub>2</sub> -CHO	.....
i	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -Cl	.....
j	$\begin{array}{c} \text{CH}_3\text{-CH-CH}_3 \\   \\ \text{OH} \end{array}$	.....
k	CH <sub>3</sub> -CO-CH <sub>3</sub>	.....
l	CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>2</sub> -OH	.....
m	$\begin{array}{c} \text{CH}_3\text{-CH-CH}_3 \\   \\ \text{Cl} \end{array}$	C <sub>3</sub> H <sub>7</sub> Cl
n	$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3\text{-C-CH}_2\text{-OH} \\   \\ \text{CH}_3 \end{array}$	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>Hint : n and o are Chain isomers</b> </div> .....
o	$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3\text{-CH-CH}_2\text{-CH}_2\text{-OH} \end{array}$	.....

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*

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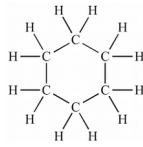
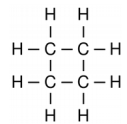
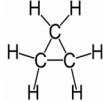
**NOMENCLATURE OF ORGANIC COMPOUNDS****WORK SHEET 20****Write all possible isomers of the following**

<b>Molecular formula</b>	<b>Isomers</b>	<b>IUPAC name</b>
<b>C<sub>5</sub>H<sub>12</sub></b>		
<b>C<sub>2</sub>H<sub>6</sub>O</b>		
<b>C<sub>3</sub>H<sub>6</sub>O</b>		
<b>C<sub>3</sub>H<sub>8</sub>O</b>		
<b>C<sub>6</sub>H<sub>12</sub></b>		
<b>C<sub>4</sub>H<sub>8</sub></b>		
<b>C<sub>3</sub>H<sub>6</sub></b>		

**Note : By changing the position of the double bonded, we can write more position isomers to alkenes**\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*Prepared by Unmesh B . **Govt VHSS Kallara** Thiruvananthapuram **9946099800**

## 6

NOMENCLATURE OF ORGANIC COMPOUNDSWORK SHEET 20Answers

Molecular formula	Isomers	IUPAC name
$C_5H_{12}$	$CH_3-CH_2-CH_2-CH_2-CH_3$	Pentane
	$\begin{array}{c} CH_3-CH-CH_2-CH_3 \\   \\ CH_3 \end{array}$	2- Methyl butane
	$\begin{array}{c} CH_3 \\   \\ CH_3-C-CH_3 \\   \\ CH_3 \end{array}$	2,2 – Dimethylpropane
$C_2H_6O$	$CH_3-CH_2-OH$	Ethanol
	$CH_3-O-CH_3$	Methoxymethane
$C_3H_6O$	$CH_3-CH_2-CHO$	Propanal
	$CH_3-CO-CH_3$	Propanone
$C_3H_8O$	$CH_3-CH_2-CH_2-OH$	Propan -1-ol
	$\begin{array}{c} CH_3-CH-CH_3 \\   \\ OH \end{array}$	Preopan - 2- ol
	$CH_3-O-CH_2-CH_3$	Methoxyethane
$C_6H_{12}$	$CH_3-CH_2-CH_2-CH_2-CH=CH_2$	Hex -1-ene *
		Cyclohexane
$C_4H_8$	$CH_3-CH_2-CH=CH_2$	But – 1 -ene *
		Cyclobutane
$C_3H_6$	$CH_3-CH=CH_2$	Propene
		Cyclopropane

Note : \*By changing the position of the double bonded, we can write more position isomers to alkenes

\*C<sub>1</sub> - METH \* C<sub>2</sub> - ETH \* C<sub>3</sub> - PROP \* C<sub>4</sub> - BUT \* C<sub>5</sub> - PENT \* C<sub>6</sub> - HEX \* C<sub>7</sub> - HEPT \* C<sub>8</sub> - OCT \* C<sub>9</sub> - NON \* C<sub>10</sub> - DEC \*

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