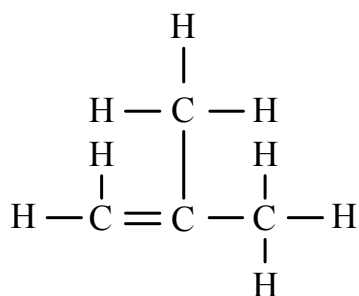


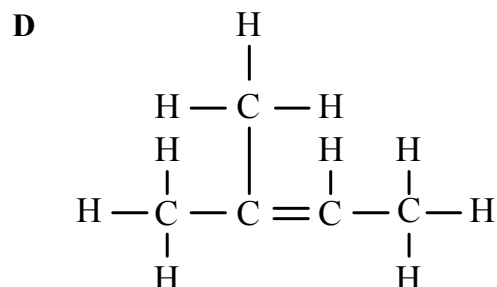
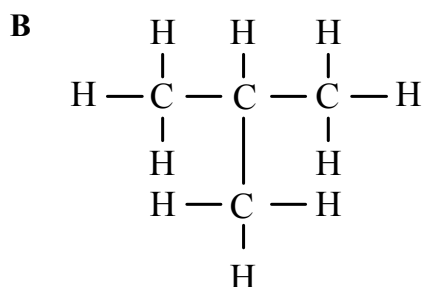
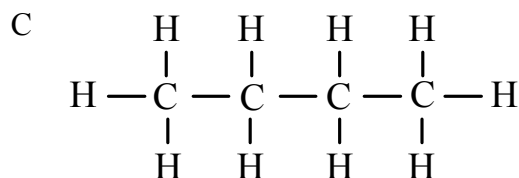
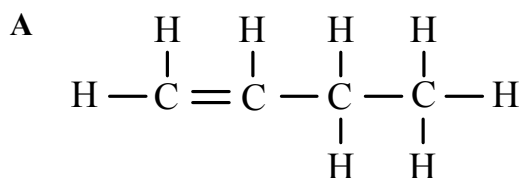
BAB 2: SEBATIAN KARBON  
CARBON COMPOUND

OBJEKTIF  
OBJECTIVES

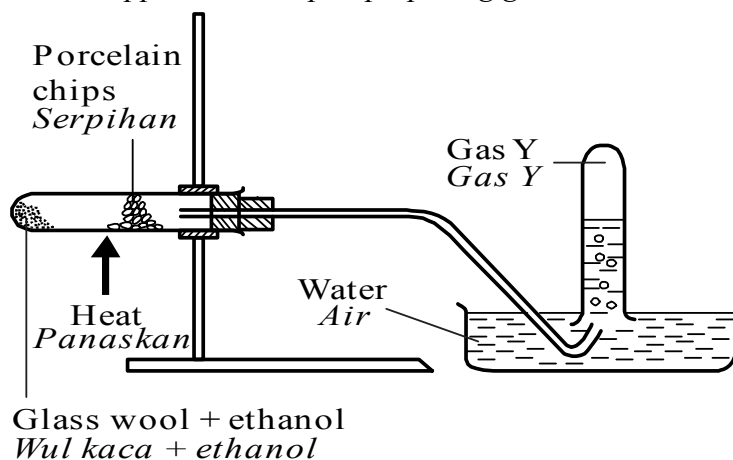
- 1 Propena boleh ditukar kepada propanol melalui proses  
*Propene can be change to propanol by the process of*
- A Oxidation      B Hydration      C Fermentation      D Hydrogenation  
*Pengoksidaan      Penghidratan      Penapaian      Penghidrogenan*
- 2 Rajah di bawah menunjukkan formula struktur bagi suatu hidrokarbon tak tepu Q.  
*Diagram below shows the structural formula of an unsaturated hydrocarbon Q.*



Antara berikut, yang manakah merupakan isomer bagi hidrokarbon Q?  
*Which of the following is the isomer of hydrocarbon Q?*



- 3 Rajah menunjukkan susunan radas dalam penyediaan gas Y  
The diagram shows the apparatus set-up in preparing gas Y.



Apakah gas Y? What is gas Y?

A Etana  
Ethane

B Etena  
Ethene

C Metana  
Methane

D Karbon dioksida  
Carbon dioxide

- 4 Persamaan berikut mewakili tindak balas penyediaan etanol secara industri.  
The following equation represents a reaction for industrial preparation of propanol



Mangkin X / Catalyst X, 300<sup>0</sup>  
C / 60 atm

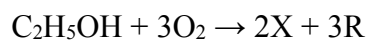
What is P and catalyst X?  
Apakah P dan mangkin X?

	P	Catalyst X / Mangkin X
A	C <sub>2</sub> H <sub>4</sub>	Platinum / Platinum
B	C <sub>3</sub> H <sub>6</sub>	Nickel / Nikel
C	C <sub>2</sub> H <sub>4</sub>	Asid sulfurik / Sulphuric acid
D	C <sub>3</sub> H <sub>6</sub>	Asid fosforik / Phosphoric acid

- 5 Apakah kumpulan berfungsi bagi suatu alkohol?  
*What is the functional group of an alcohol?*

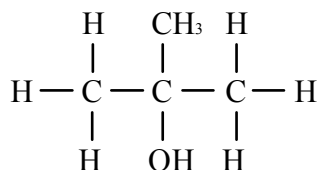
A -OH                      B C=C                      C -COO-                      D COOH

- 6 Persamaan berikut menunjukkan pembakaran lengkap etanol untuk menghasilkan gas X dan sebatian R. Apakah nama gas X dan sebatian R?  
*The following equation shows a complete combustion of ethanol to form gas X and compound R. What is the name of gas X and compound R?*



A Nitrogen dan air <i>Nitrogen and water</i>	C Karbon monoksida dan nitrogen <i>Carbon monoxide and nitrogen</i>
B Karbon dioksida dan air <i>Carbon dioxide and water</i>	D Hidrogen dan karbon dioksida <i>Hydrogen and carbon dioxide</i>

- 7 Rajah di bawah menunjukkan formula struktur bagi satu sebatian organik.  
*The diagram below show the structural formula of an organic compound.*



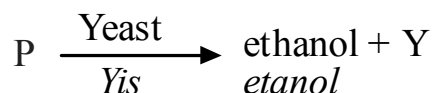
Apakah nama sebatian organik itu?  
*What is the name of the organic compound?*

A Butan-2-ol <i>Butan-2-ol</i>	C 2-metilbutan-2-ol <i>2-methylbutan-2-ol</i>
B 2-etilpropan-1-ol <i>2-ethylpropan-1-ol</i>	D 2-metilpropan-2-ol <i>2-methylpropan-2-ol</i>

- 8 Etanol digunakan sebagai pelarut di dalam penyediaan ubat batuk. Antara berikut yang manakah siri homolog bagi etanol?  
*Ethanol is used as a solvent in the preparation of cough syrup. Which of the following is the homologous series of ethanol?*

A Alkana / Alkane  
 B Alkena / Alkene  
 C Alkohol / Alcohol  
 D Asid karbosilik / Carboxylic acid

- 9 Persamaan berikut mewakili proses penapaian.  
*The equation represents fermentation process.*



Apakah P dan Y?  
*What is P and Y?*

	Bahan yang ditapai <i>Substances fermented</i>	Gas yang dibebaskan semasa penapaian <i>Gas evolved during fermentation</i>
A	Glukosa / <i>Glucose</i>	Gas karbon dioksida / <i>Carbon dioxide gas</i>
B	Hidrokarbon / <i>Hydrocarbons</i>	Gas oksigen / <i>Oxygen gas</i>
C	Glukosa / <i>Glucose</i>	Gas oksigen / <i>Oxygen gas</i>
D	Hidrokarbon / <i>Hydrocarbons</i>	Gas karbon dioksida / <i>Carbon dioxide gas</i>

- 10 Ester yang berformula  $C_3H_7COOCH_3$  boleh dihasilkan daripada tindak balas antara  
*An ester which has the formula  $C_3H_7COOCH_3$  can be produced from the reaction between*

A  $C_2H_5OH$  and  $CH_3COOH$   
 B  $C_2H_5OH$  and  $HCOOCH_3$   
 C  $CH_3OH$  and  $C_3H_7COOH$   
 D  $CH_3OH$  and  $HCOOC_2H_5$