

**Φ Ρ Ο Ν Τ Ι Σ Τ Η Ρ Ι Α**  
**Ο Μ Ο Κ Ε Ν Τ Ρ Ο**  
**Α. Φλωρόπουλου**  
 για μαθητές με απαιτήσεις

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**ΑΠΑΝΤΗΣΕΙΣ ΣΤΟ ΔΙΑΓΩΝΙΣΜΑ ΧΗΜΕΙΑΣ ΠΡΟΣΑΝΑΤΟΛΙΣΜΟΥ  
 (ΠΡΟΕΤΟΙΜΑΣΙΑ Γ' ΛΥΚΕΙΟΥ)  
 Β' ΛΥΚΕΙΟΥ**

**Σάββατο 19 Φεβρουαρίου 2022**

**ΘΕΜΑ Α**

A.1. a

A.2. c

A.3. a

A.4. a

A.5.d

**ΘΕΜΑ Β**

B.1. Σχολικό βιβλίο

B.2.

- a.  $C_4H_{10}O + 6 O_2 \rightarrow 4 CO_2 + 5H_2O$
- b.  $CH_3CH_2CH=CH_2 + HCl \rightarrow CH_3CH_2CHClCH_3$
- c.  $CH_3C\equiv CH + H_2O \rightarrow CH_3CHO$
- d.  $CH_3CH_2CH(OH)CH_3 \xrightarrow{H_2SO_4, 170^\circ C} CH_3CH=CHCH_3 + H_2O$
- e.  $CH_3CH_2OH + Na \rightarrow CH_3CH_2ONa + \frac{1}{2}H_2$

B.3.

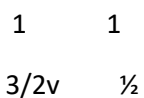
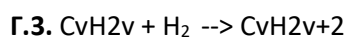
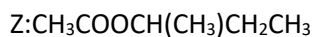
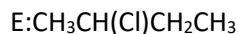
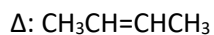
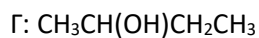
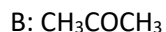
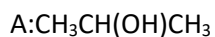
- a.  $(CH_3)_3CCH(OH)CH_2Cl$
- b.  $CH_2=CHC(CH_3)(Br)COOH$
- c.  $CH_3OCH(CH_3)_2$

**ΘΕΜΑ Γ**

Γ.1.

- a.  $(CH_3)_3COH$
- b.  $(CH_3)_2C=CH_2 + H_2O \rightarrow (CH_3)_3COH$
- c. B:  $CH_3CH_2OCH_2CH_3$

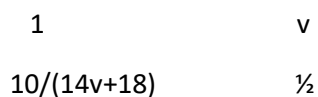
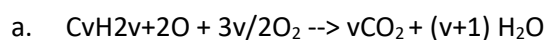
Γ:  $CH_3CH_2OH$

**Γ.2.**

$n = m/M_r = 21/14v = 3/2v$

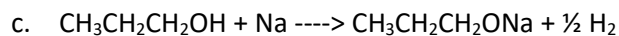
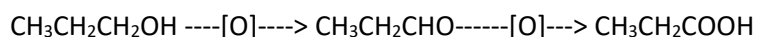
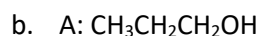
$n = V/22,4 = 1/2$

Άρα  $2v = 6 \Rightarrow v = 3, \text{C}_3\text{H}_6$

**ΘΕΜΑ Δ****Δ.1.**

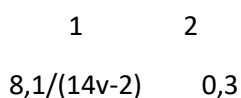
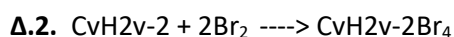
$n = m/M_r = 10/(14v+18), \quad n = V/22,4 = 11,2/22,4 = 1/2 \text{ mol CO}_2$

Άρα  $10/(14v+18) = 1/2 \Rightarrow v = 3, \text{C}_3\text{H}_8\text{O}$



$n = m/M_r = (1/6) * 23 \text{gNa}$

$n = V/22,4 \Rightarrow V = (1/12) 22,4 \text{L H}_2$



$n = m/M_r = 8,1/(14v-2)$

$$C=n/V \Rightarrow n=0,6 \cdot 0,5=0,3 \text{ mol Br}$$

$$\text{Άρα : } 16,2 / (14v - 2) = 3 / 10 \Rightarrow v = 4, \text{ άρα } \text{CH}_3\text{CH}_2\text{C}\equiv\text{CH} \text{ ή } \text{CH}_3\text{C}\equiv\text{CCH}_3$$

