

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 ΓΙΑ ΤΗΝ Β' ΛΥΚΕΙΟΥ**

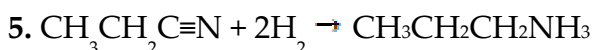
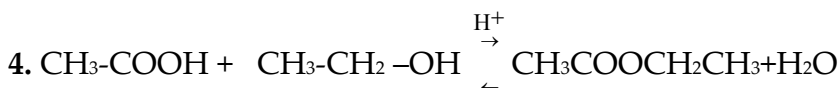
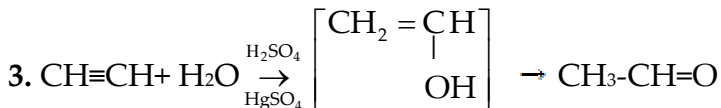
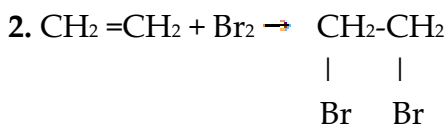
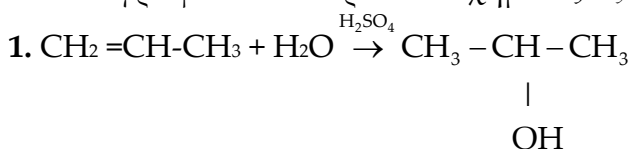
Κυριακή 14 Φεβρουαρίου 2016

ΘΕΜΑ Α

A1. β A2. α A3. δ A4. γ A5. γ

ΘΕΜΑ Β

B1. Να γραφούν οι παρακάτω χημικές εξισώσεις:



B2.

1.

A: CH₃CH₂-OH

B: CH₃CH₂-Cl

Γ: CH₃CH₂MgCl

Δ: CH₃CHCH₂CH₃

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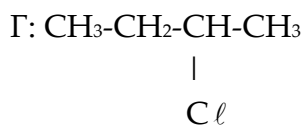
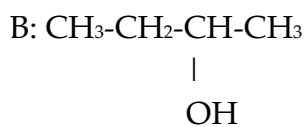
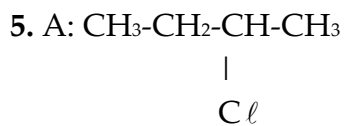
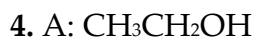
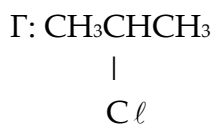
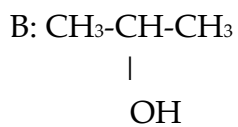
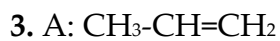
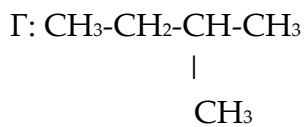
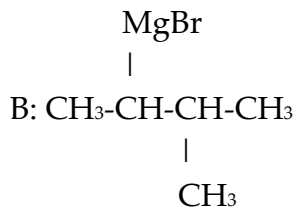
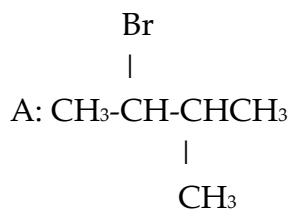
OMgCl

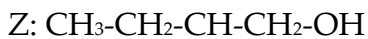
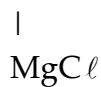
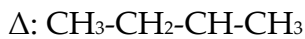
E: CH₃CHCH₂CH₃

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OH

2.



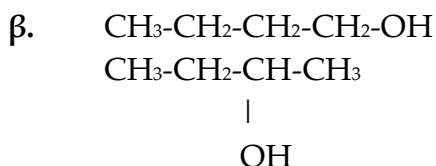


ΘΕΜΑ Γ

Γ1.

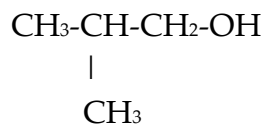
$$\alpha. \text{C}_v\text{H}_{2v+1}\text{OH} : \text{Mr} = 14v + 18 = 74 \Rightarrow v = 4$$

M.T: C₄H₉OH



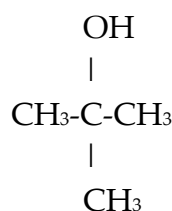
1-βουτανόλη
2-βουτανόλη

γ. 1 ταγής αλκοόλη
2 ταγής αλκοόλη



μέθυλο 1 προπανόλη

1 ταγής αλκοόλη

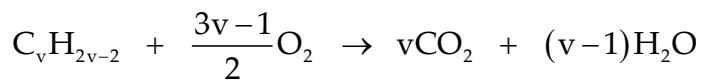


μέθυλο 2 προπανόλη

3 ταγής αλκοόλη

$$\Gamma 2. \text{O}_2 : n = \frac{V}{22,4} = \frac{5,6}{22,4} = \frac{1}{4} \text{ mol}$$

$$\text{C}_v\text{H}_{2v-2} : n = \frac{m}{\text{Mr}} = \frac{2,6}{14v-2} \text{ mol}$$



$$\begin{array}{ccc} 1 \text{ mol} & \frac{3v-1}{2} \text{ mol} & v \text{ mol} \\ \frac{2,6}{14v-2} \text{ mol} & \frac{1}{4} \text{ mol} & x \end{array}$$

$$\frac{2,6}{14v-2} \cdot \frac{3v-1}{2} = \frac{1}{4} \Rightarrow \boxed{v=2}$$

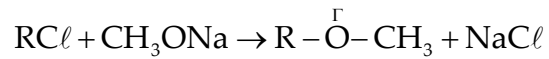
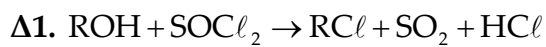
α. M.T: C₂H₂ Σ.T: CH≡CH

β . CO_2 : $x = 0,1 \cdot 2 = 0,2$ mol CO_2

$$M_r = 12 + 2 \cdot 16 = 44$$

$$n = \frac{m}{M_r} \Rightarrow m = n \cdot M_r = 0,2 \cdot 44 = 8,8 \text{ g}$$

Θ EMA Δ

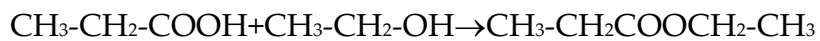
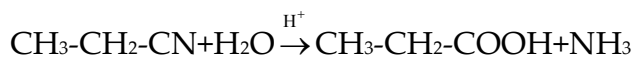


$$\Gamma: \text{C}_v\text{H}_{2v+1}-\text{O}-\text{CH}_3 : M_r = 12v + 2v + 1 + 16 + 12 + 3 = 60 \Rightarrow v = 2$$

A: $\text{CH}_3\text{-CH}_2\text{-OH}$

B: $\text{CH}_3\text{-CH}_2\text{-Cl}$

Γ : $\text{CH}_3\text{-CH}_2\text{-O-CH}_3$



Δ : $\text{CH}_3\text{-CH}_2\text{-COOH}$

E: $\text{CH}_3\text{-CH}_2\text{-COO-CH}_2\text{-CH}_3$