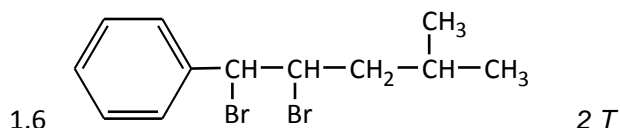
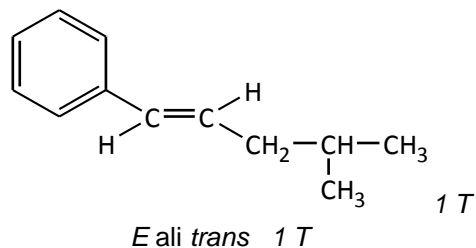
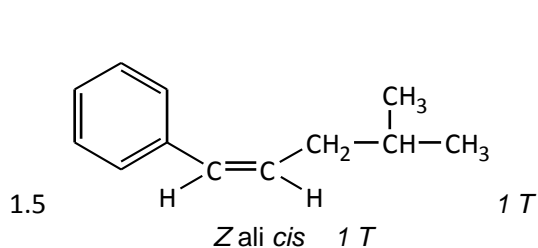


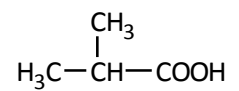
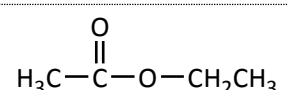
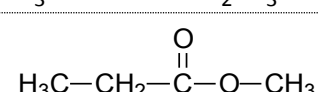
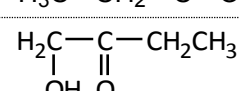
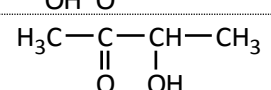
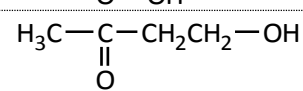
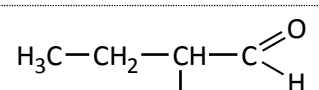
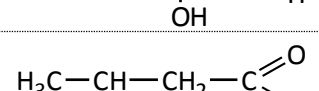
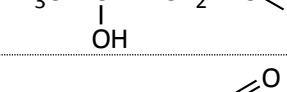
REŠITVE**1. NALOGA**1.1 A: sp^2 B: sp^2 C: sp^3 D: sp^3 E: sp^3 5 x 0,5 T

1.2 C: sekundarni D: terciarni E: primarni 3 x 0,5 T

1.3 28 σ -vezi 1 T1.4 4 π -vezi 1 T

Skupaj: 12 T

2. NALOGA

| Racionalna ali skeletna formula spojine | IUPAC ime spojine |
|---|------------------------------|
| $\text{CH}_3\text{CH}_2\text{CH}_2\text{COOH}$ | butanojska kislina |
|  | 2-metilpropanojska kislina |
|  | etil etanoat ali etil acetat |
|  | metil propanoat |
|  | 1-hidroksibutanon |
|  | 3-hidroksibutanon |
|  | 4-hidroksibutanon |
|  | 2-hidroksibutanal |
|  | 3-hidroksibutanal |
|  | 4-hidroksibutanal |

| | |
|--|---|
| $\begin{array}{c} \text{CH}_3 \\ \\ \text{CH}_3 - \text{C} - \text{C} = \text{O} \\ \quad \quad \quad \backslash \\ \text{OH} \quad \quad \quad \text{H} \end{array}$ | 2-hidroksi-2-metilpropanal |
| $\begin{array}{c} \text{CH}_3 \\ \\ \text{CH}_2 - \text{CH} - \text{C} = \text{O} \\ \quad \quad \quad \backslash \\ \text{OH} \quad \quad \quad \text{H} \end{array}$ | 3-hidroksi-2-metilpropanal |
| $\begin{array}{c} \text{O} \\ \\ \text{H} - \text{C} - \text{O} - \text{CH}_2\text{CH}_2\text{CH}_3 \end{array}$ | propil metanoat ali propil format |
| $\begin{array}{c} \text{O} \\ \\ \text{H} - \text{C} - \text{O} - \text{CH}(\text{CH}_3)_2 \end{array}$ | izopropil metanoat ali izopropil format |
| $\begin{array}{c} \text{O} \\ \\ \text{H}_3\text{C} - \text{CH} - \text{C} - \text{H} \\ \\ \text{OCH}_3 \end{array}$ | 2-metoksipropanal |
| $\begin{array}{c} \text{O} \\ \\ \text{H}_2\text{C} - \text{CH}_2 - \text{C} - \text{H} \\ \\ \text{OCH}_3 \end{array}$ | 3-metoksipropanal |
| $\begin{array}{c} \text{O} \\ \\ \text{CH}_2 - \text{C} - \text{CH}_3 \\ \\ \text{OCH}_3 \end{array}$ | metoksipropanon ali metoksiacetone |
| $\text{CH}_3\text{CH}_2 - \text{O} - \text{CH}_2 - \begin{array}{c} \text{O} \\ \\ \text{C} - \text{H} \end{array}$ | etoksietanal |

Vsaka pravilna formula in ime spojine se točkuje z 1 T. Točkuje se 10 spojin.

Skupaj: 10 T

3. NALOGA

| | | |
|-----|---|-----------|
| 3.1 | $\text{C}_6\text{H}_{13}\text{Cl}$ | 2 T |
| 3.2 | $\begin{array}{c} \text{CH}_3 \\ \\ \text{H}_3\text{C} - \text{CH}_2 - \text{C} - \text{CH}_2\text{Cl} \\ \\ \text{CH}_3 \end{array}$ | 3 T |
| 3.3 | $\begin{array}{c} \text{CH}_3 \\ \\ \text{H}_3\text{C} - \text{CH}_2 - \text{C} - \text{CH}_2\text{OH} \\ \\ \text{CH}_3 \end{array}$ | 2 T |
| 3.4 | Eliminacija ne poteče, ker na drugem ogljikovem atomu ni atoma vodika. | 2 T |
| 3.5 | $\begin{array}{cc} \begin{array}{c} \text{CH}_3 \\ \\ \text{H}_3\text{C} - \text{CH}_2 - \text{C} - \text{CHCl}_2 \\ \\ \text{CH}_3 \end{array} & \begin{array}{c} \text{CH}_2\text{Cl} \\ \\ \text{H}_3\text{C} - \text{CH}_2 - \text{C} - \text{CH}_2\text{Cl} \\ \\ \text{CH}_3 \end{array} \\ \\ \begin{array}{c} \text{CH}_3 \\ \\ \text{H}_3\text{C} - \text{CH} - \text{C} - \text{CH}_2\text{Cl} \\ \quad \\ \text{Cl} \quad \text{CH}_3 \end{array} & \begin{array}{c} \text{CH}_3 \\ \\ \text{H}_2\text{C} - \text{CH}_2 - \text{C} - \text{CH}_2\text{Cl} \\ \quad \\ \text{Cl} \quad \text{CH}_3 \end{array} \end{array}$ | 4 x 0,5 T |

Skupaj: 11 T

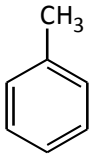
4. NALOGA

| | | | | |
|-----|--|----|--|---------|
| 4.1 | C_5H_{10} | | 1 T | |
| 4.2 | $CH_3-CH_2-CH=CH-CH_3$ | | 2 T | |
| 4.3 | $CH_3-CH_2-\underset{\text{Cl}}{\underset{ }{CH}}-CH_2-CH_3$ | in | $CH_3-CH_2-CH_2-\underset{\text{Cl}}{\underset{ }{CH}}-CH_3$ | 2 x 2 T |
| 4.4 | $CH_3-CH_2-\overset{\oplus}{CH}-CH_2-CH_3$ | in | $CH_3-CH_2-CH_2-\overset{\oplus}{CH}-CH_3$ | 2 x 1 T |

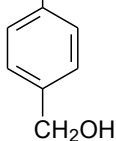
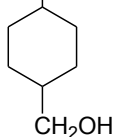
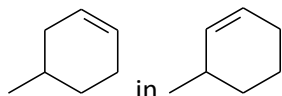
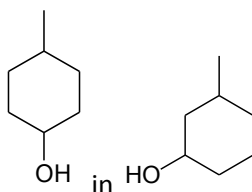
Skupaj: 9 T**5. NALOGA**

| | | |
|-----|-----------------------------------|-----|
| 5.1 | $Cl_2/h\nu$ ali Cl_2/Δ | 2 T |
| 5.2 | $Cl_2/AlCl_3$ ali $Cl_2/FeCl_3$ | 2 T |
| 5.3 | $KMnO_4/H^+$ ali $K_2Cr_2O_7/H^+$ | 2 T |
| 5.4 | HNO_3/H_2SO_4 | 2 T |

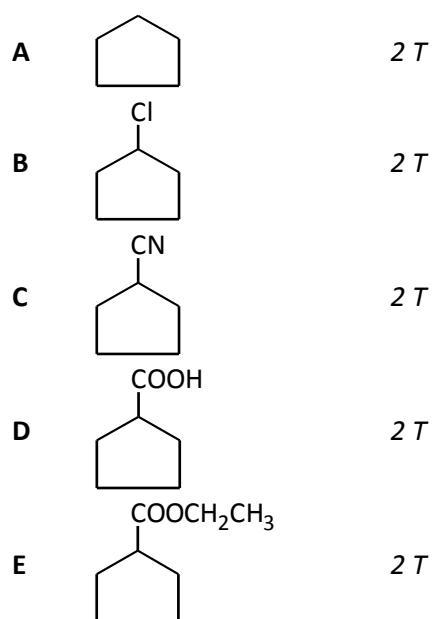
Skupaj: 8 T**6. NALOGA**

| | | |
|-----|---|-----|
| 6.1 | $C_7H_8 + 9O_2 \rightarrow 7CO_2 + 4H_2O$ | 2 T |
| 6.2 |  | 2 T |
| 6.3 | metilbenzen | 1 T |
| | toluen | 1 T |
| 6.4 | aromatski ogljikovodiki (areni) | 1 T |
| 6.5 | elektrofilna substitucija | 1 T |

Skupaj: 8 T

7. NALOGA7.1 COONa 2 T7.2 OH 2 T7.3 in 4 T
(2+2)7.4 in 4 T
(2+2)**Skupaj: 12 T****8. NALOGA**8.1 $C > A > B > D$ 3 T8.2 2,2-dimetilpropan 2 T8.3 disperzijske sile 2 T8.4 propanojska kislina 2 T**Skupaj: 9 T****9. NALOGA**9.1 C_4H_8O 2 T9.2 O 3 T
 $H_3C-CH_2-C-CH_3$ 9.3 OH 3 T
 $H_3C-CH_2-CH-CH_3$ 9.4 O₂N 3 T
 $H_3C-CH_2-C-CH_3$
Skupaj: 11 T

10. NALOGA



Skupaj: 10 T

Vse skupaj: 100 T