

REŠITVE**1. naloga**

1.1	A: sp^2 , B: sp^2 , C: sp^3	3 x 1,0 T	
1.2	$C_{14}H_{14}O$	2,0 T	
1.3	30	1,0 T	
1.4	približno $109,5^\circ$ (upoštevamo odgovore od 109° do 110°)	1,0 T	Skupaj: 7,0 T

2. naloga

2.1	$2C_6H_6 + 15O_2 \rightarrow 12CO_2 + 6H_2O$	2,0 T	
2.2	benzen	2,0 T	
2.3	aromatski ogljikovodiki (areni)	2,0 T	
2.4	elektrofilne substitucije	2,0 T	Skupaj: 8,0 T

3. naloga

3.1	C_7H_{16}	2,0 T	
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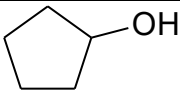
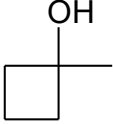
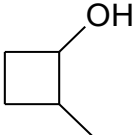
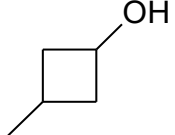
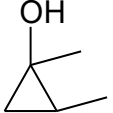
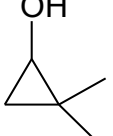
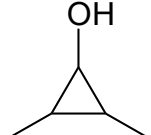
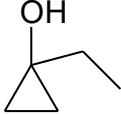
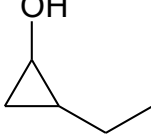
3.2	$ \begin{array}{ccccccc} & & CH_3 & & CH_3 & & \\ & & & & & & \\ CH_3 & - & CH & - & C & - & CH_3 \\ & & & & & & \\ & & & & CH_3 & & \end{array} $	2,0 T	
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3.3	$ \begin{array}{ccccccc} & & CH_3 & & CH_3 & & \\ & & & & & & \\ CH_2 & - & CH & - & C & - & CH_3 \\ & & & & & & \\ Cl & & & & CH_3 & & \\ \\ & & CH_3 & & CH_3 & & \\ & & & & & & \\ CH_3 & - & C & - & C & - & CH_3 \\ & & & & & & \\ & & Cl & & CH_3 & & \\ \\ & & CH_3 & & CH_3 & & \\ & & & & & & \\ CH_3 & - & CH & - & C & - & CH_2 \\ & & & & & & \\ & & & & CH_3 & & Cl \end{array} $	3 x 2,0 T	
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Skupaj: 10,0 T**4. naloga**

4.1	2-nitrobenzaldehyd ali 2-nitrobenzenkarbaldehyd ali o-nitrobenzaldehyd oz. o-nitrobenzenkarbaldehyd	2,0 T	
4.2	propil metanoat ali propil format	2,0 T	
4.3	4,5,6-trimetilhepta-1,4-dien	2,0 T	
4.4	4-etil-6-metilcikloheksan-1,3-diol	2,0 T	Skupaj: 8,0 T

5. naloga

Racionalna ali skeletna formula	IUPAC ime
	ciklopentanol
	1-metilciklobutanol
	2-metilciklobutanol
	3-metilciklobutanol
	1,2-dimetilciklopropanol
	2,2-dimetilciklopropanol
	2,3-dimetilciklopropanol
	1-etilciklopropanol
	2-etilciklopropanol

Vsaka pravilna formula in pravilno ime spojine: 2,0 T.

Skupaj: 12,0 T

Vsaka pravilna formula ob napačnem imenu spojine: 1,0 T.

Ime spojine se upošteva le, če je formula spojine popolnoma pravilna.

Upošteva se le šest zapisanih formul.

6. naloga

6.1 Cl_2 / Δ ali $\text{Cl}_2 / h\nu$ 2,0 T

6.2 $\text{Cl}_2 / \text{AlCl}_3$ (priznamo tudi $\text{Cl}_2 / \text{FeCl}_3$) 2,0 T

6.3 H_2 / Ni (Pt, Pd, Rh ...); priznamo tudi LiAlH_4 2,0 T

Skupaj: 6,0 T

7. naloga

- 7.1 2-metilpropan-2-ol 2,0 T
- 7.2 butan-1-ol 2,0 T
- 7.3 Med molekulami butan-1-ola so bistveno močnejše privlačne sile (vodikove vezi) kakor med molekulami butanala. 2,0 T **Skupaj: 6,0 T**
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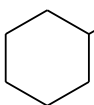
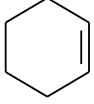
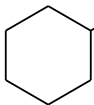
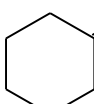
8. naloga

- 8.1 A $\text{CH}_3\text{—CH—CHO}$ 2,0 T
 $\quad\quad\quad |$
 $\quad\quad\quad \text{CH}_3$
- B $\text{CH}_3\text{—CO—CH}_2\text{—CH}_3$ 2,0 T
- C $\text{CH}_3\text{—CH}_2\text{—CH}_2\text{—CHO}$ 2,0 T
- 8.2 Butanon ali butan-2-on 1,0 T **Skupaj: 7,0 T**
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9. naloga

- 9.1 $\text{CH}_2=\underset{\text{CH}_3}{\text{C}}\text{—CH}_2\text{—CH}_3 \xrightarrow{\text{HCl}} \text{CH}_3\text{—}\overset{\text{Cl}}{\underset{\text{CH}_3}{\text{C}}}\text{—CH}_2\text{—CH}_3$ 3,0 T
- 9.2 Elektrofилna adicija 2,0 T
- 9.3 $\text{CH}_3\text{—}\overset{\oplus}{\text{C}}\text{—CH}_2\text{—CH}_3$ 2,0 T
 $\quad\quad\quad |$
 $\quad\quad\quad \text{CH}_3$
- 9.4 kloridni ion (imen klor, klorov atom ipd. ne priznamo) 1,0 T **Skupaj: 8,0 T**
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10. naloga

- A  2,0 T
- B  2,0 T
- C  2,0 T
- D  2,0 T

Skupaj: 8,0 T**Vse skupaj: 80,0 T**