

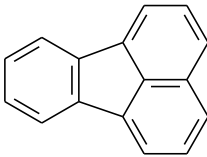
**REŠITVE**

Pri računskih nalogah mora biti jasno in korektno predstavljena pot do rezultata z vsemi vmesnimi računi in sklepi. Računske naloge, v katerih tekmovalec ne prikaže postopka reševanja, se točkujejo z 0 točkami!

**1. NALOGA**

1.1	CH <sub>3</sub> (Upoštevamo tudi drugačno zaporedje elementov.)	1 T	
1.2	A: etil	1 T	
	B: amino	1 T	
	C: ciklo	1 T	
1.3	4	1 T	
1.4	3	1 T	<b>Skupaj: 6 T</b>

**2. NALOGA**

2.1	C <sub>16</sub> H <sub>10</sub> 	1 T	
	(Upoštevamo tudi druge pravilne resonančne strukture.)	1 T	
2.2	16	1 T	
2.3	29	1 T	
2.4	5	1 T	<b>Skupaj: 5 T</b>

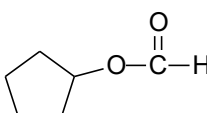
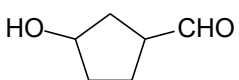
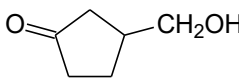
**3. NALOGA**

3.1	Molekulska formula A: C <sub>10</sub> H <sub>18</sub>	1 T	
	Molekulska formula B: C <sub>10</sub> H <sub>22</sub>	1 T	
3.2	$\begin{array}{c} \text{CH}_3 \qquad \text{CH}_3 \\   \qquad \quad   \\ \text{CH}_3 - \text{C} - \text{C} \equiv \text{C} - \text{C} - \text{CH}_3 \\   \qquad \quad   \\ \text{CH}_3 \qquad \text{CH}_3 \end{array}$	1 T	
3.3	3-kloro-2,2,5,5-tetrametilheksan	1 T	<b>Skupaj: 4 T</b>

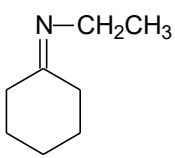
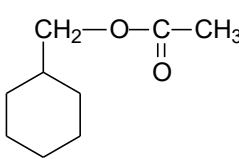
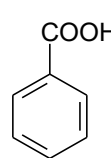
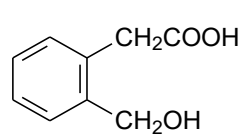
**4. NALOGA**

4.1	$B < C < \check{C} < D < A$	1 T	
4.2	C in D	1 T	
4.3	1-etoksipropan	1 T	
4.4	disperzijske sile/vezi	1 T	
4.5	butan-1,4-diol	1 T	
4.6	A	1 T	<b>Skupaj: 6 T</b>

**5. NALOGA**

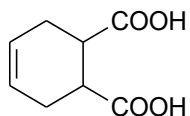
5.1	$C_6H_{10}O_2$ (Upoštevamo tudi drugačno zaporedje elementov v molekulski formuli.)	1 T	
5.2	A: 	1 T	
	B: 	1 T	
	C: 	1 T	
5.3	ciklopentil metanoat <i>ali</i> ciklopentil format	1 T	
5.4	nukleofilna adicija	1 T	
5.5	srebro / Ag	1 T	<b>Skupaj: 7 T</b>

**6. NALOGA**

6.1		1 T	
6.2		1 T	
6.3		1 T	
6.4		1 T	<b>Skupaj: 4 T</b>

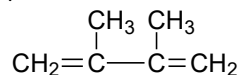
**7. NALOGA**

- 7.1 but-2-endiojska kislina 1 T  
 (Priznamo tudi ime brez pozicijske številke 2.)

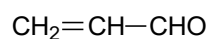


1 T

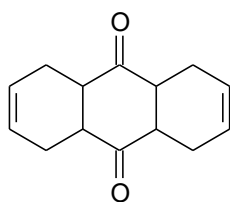
- 7.2 3,4-dimetilcikloheks-3-en-1-karbaldehid 1 T  
 (Priznamo tudi ime brez pozicijske številke 1.)



1 T



1 T



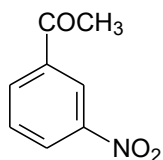
- 7.3 1 T **Skupaj: 6 T**

**8. NALOGA**

- 8.1  $\text{C}_8\text{H}_8\text{O}$  1 T  
 (Upoštevamo tudi drugačno zaporedje elementov v molekularni formuli.)

1-feniletan-1-on *ali* fenil metil keton 1 T  
 (Priznamo tudi substitutivno ime brez pozicijske številke 1.)

- 8.2  $\text{CH}_3\text{COCl}$  1 T



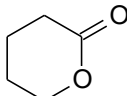
- 8.3 1 T

- 8.4 A: 1 T

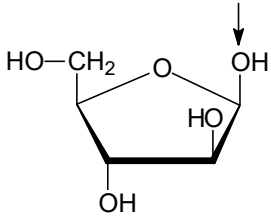
B: 1 T

C: 1 T **Skupaj: 7 T**

**9. NALOGA**

9.1	4-bromobutanal	1 T	
9.2	A: HO-CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -Br	1 T	
	B: HO-CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CN	1 T	
	C: HO-CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -COOH	1 T	
	Č: HO-CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -OH	1 T	
D:		1 T	<b>Skupaj: 6 T</b>

**10. NALOGA**

10.1	C <sub>5</sub> H <sub>10</sub> O <sub>5</sub> (Upoštevamo tudi drugačno zaporedje elementov v molekularni formuli.)	1 T	
10.2	D	1 T	
10.3	beta	1 T	
10.4	pentozna aldoza	1 T 1 T	
10.5		1 T	
10.6	3	1 T	<b>Skupaj: 7 T</b>

**Vse skupaj: 58 T**