

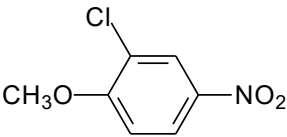
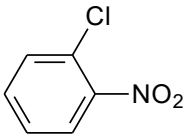
REŠITVE

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	$C_{18}H_{18}O_5$ (Upoštevamo tudi drugačno zaporedje elementov.)	1 T	
1.2	A: 4,6 B: metoksi C: on	1 T 1 T 1 T	
1.3	3	1 T	
1.4	<i>trans</i> (ali <i>E</i>)	1 T	Skupaj: 6 T

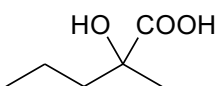
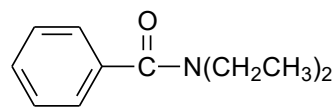
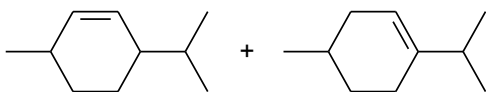
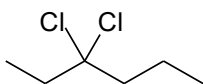
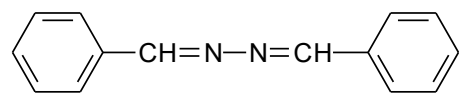
2. NALOGA

2.1	$C_7H_7NO_3$ (Upoštevamo tudi drugačno zaporedje elementov.)	1 T	
2.2	NO_2	1 T	
2.3		1 T	
2.4	Substrat:  Reagent: CH_3ONa (Upoštevamo tudi drugačno zaporedje elementov.)	1 T 1 T	Skupaj: 5 T

3. NALOGA

3.1	$B < D < \check{C} < A < C$	1 T	
3.2	heksan-2,4-dion (Upoštevamo tudi 2,4-heksandion.)	1 T	
3.3	orientacijske (sile/vezi)	1 T	
3.4	heksan-1,6-diol	1 T	
3.5	3,4-dimetilheksan	1 T	Skupaj: 5 T

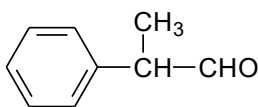
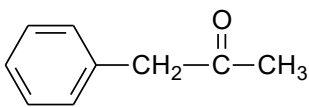
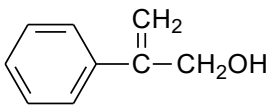
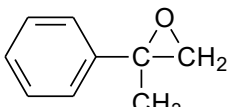
4. NALOGA

- 4.1  1 T
- 4.2  1 T
- 4.3  2 x 1 T
- 4.4  1 T
- 4.5  1 T **Skupaj: 6 T**

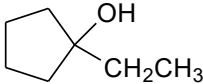
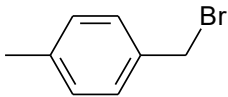
5. NALOGA

- 5.1 C_6H_{10} 1 T
- 5.2 $2 C_6H_{10} + 17 O_2 \rightarrow 12 CO_2 + 10 H_2O$ 1 T
- 5.3 B: 3-metilpentan 1 T
C: 3-metilpentan-2-on 1 T
- 5.4 4 1 T **Skupaj: 5 T**

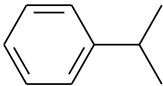
6. NALOGA

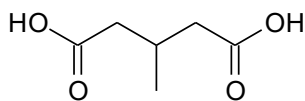
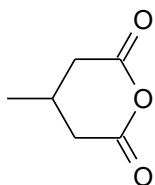
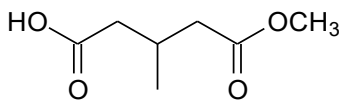
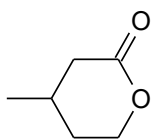
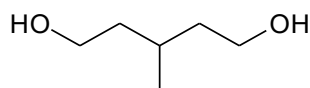
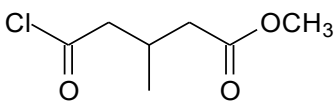
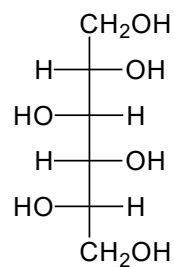
- 6.1 $C_9H_{10}O$ 1 T
(Upoštevamo tudi drugačno zaporedje elementov.)
- 6.2 A:  1 T
- B:  1 T
- C:  1 T
- Č:  1 T
- 6.3 feniletanojska kislina / fenilocetna kislina 1 T **Skupaj: 6 T**

7. NALOGA

- 7.1  1 T
- 7.2 fenil propil keton / 1-fenilbutan-1-on 1 T
 CH_3MgBr 1 T
- 7.3  1 T
A: 1 T
B: metanal / formaldehid 1 T
- 7.4 A 1 T **Skupaj: 6 T**
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8. NALOGA

- 8.1 propen 1 T
- 8.2  1 T
- 8.3 C: aceton 1 T
Č: fenol 1 T
- 8.4 $\text{CH}_3-\overset{\oplus}{\text{CH}}-\text{CH}_3$ (Zahteva se pravilen položaj naboja.) 1 T **Skupaj: 5 T**
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9. NALOGA9.1 5-hidroksi-3-metilpentanojska kislina 1 T9.2 A: 1 TB: 1 TC: 1 TČ: 1 TD: 1 TE: 1 T **Skupaj: 7 T****10. NALOGA**10.1 heksozo, ketozo (ni delnih točk) 1 T10.2 8 1 T10.3 B = 1, D = 3 (ni delnih točk) 1 T10.4 a = OH; b = CH₂OH (ni delnih točk) 1 T10.5 f = H; g = H (ni delnih točk) 1 T10.6 1 T **Skupaj: 6 T****Vse skupaj: 57 T**