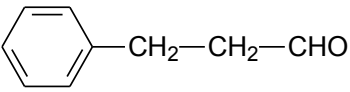
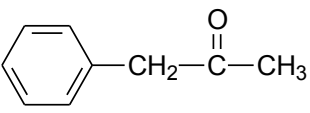
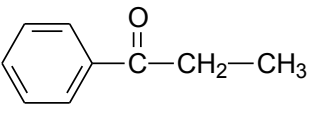
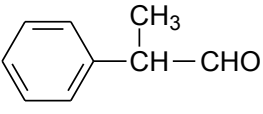


**REŠITVE****1. NALOGA**

1.1	$\begin{array}{c} \text{CH}_3-\text{CH}-\text{C}\equiv\text{C}-\text{CH}-\text{CH}_3 \\   \qquad \qquad   \\ \text{CH}_3 \qquad \qquad \text{CH}=\text{CH}_2 \end{array}$	2 T	
1.2	5	2 T	
1.3	120°	2 T	
1.4	3 molekule	1 T	
1.5	2,5-dimetilheptan	1 T	<b>Skupaj: 8 T</b>

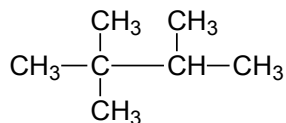
**2. NALOGA**

2.1		2 T	
		2 T	
		2 T	
		2 T	
2.2	1-fenilpropan-2-on <i>ali</i> benzil metil keton <i>ali</i> 1-fenilaceton	1 T	
2.3	2-fenilpropanal	1 T	<b>Skupaj: 10 T</b>

**3. NALOGA**

3.1	4 spojine	1 T	
3.2	1-bromobutan	1 T	
3.3	3 organski produkti	1 T	
3.4	<i>cis / trans ali Z/E (Zahteva se zapis obeh besed. Ni delnih točk.)</i>	1 T	

3.5	$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3-\text{C}-\text{CH}_3 \\ \oplus \end{array}$	2 T	
	$\begin{array}{c} \text{CH}_3 \\   \\ \text{CH}_3-\text{C}-\text{CH}_3 \\   \\ \text{OH} \end{array}$	2 T	
	Heterolitska prekinitev vezi.	1 T	
	Nukleofilna substitucija (Upoštevamo tudi kratico S <sub>N</sub> .)	1 T	<b>Skupaj: 10 T</b>

**4. NALOGA**4.1  $C > D > A > B$  2 T

4.2 2 T

4.3 Funkcionalna izomerija 2 T

4.4  $\text{C}_2\text{HF}_5$  2 T*(Upoštevamo tudi drugačno zaporedje elementov v molekularni formuli.)***Skupaj: 8 T****5. NALOGA**5.1  $\text{HC}\equiv\text{CNa}$  ali  $\text{HC}\equiv\text{C}^- \text{Na}^+$  1 T*(Formule spojine s kovalentno vezjo med ogljikom in natrijem ne priznamo.)*

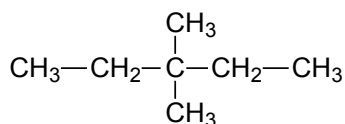
5.2 NaBr 1 T

5.3  $\text{HC}\equiv\text{C}-\text{CH}_2-\text{CH}_3$  1 T

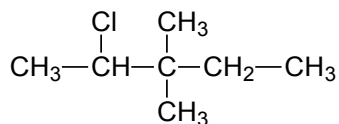
5.4

Formula alkina	Formula alkil bromida
$\text{CH}_3-\text{CH}_2-\text{C}\equiv\text{CH}$	$\text{CH}_3-\text{CH}_2-\text{Br}$
$\text{C}_6\text{H}_5-\text{C}\equiv\text{CH}$	$\text{CH}_3-\text{CH}_2-\text{Br}$
$(\text{CH}_3)_2\text{CH}-\text{C}\equiv\text{CH}$	$\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{Br}$

Vsaka pravilna formula spojine: 1 točka. Skupaj največ 6 točk.

**Skupaj: 9 T****6. NALOGA**6.1  $\text{C}_7\text{H}_{14}$  2 T

6.2 2 T

6.3  $2 \text{C}_7\text{H}_{14} + 21 \text{O}_2 \rightarrow 14 \text{CO}_2 + 14 \text{H}_2\text{O}$  2 T

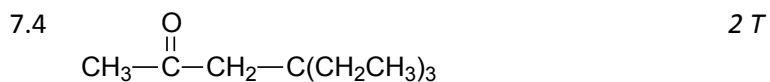
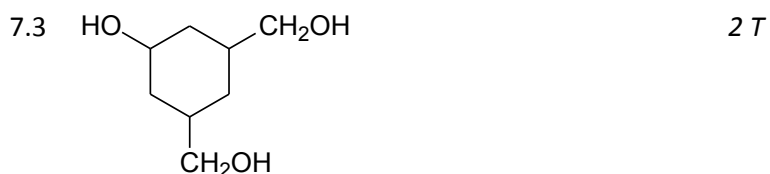
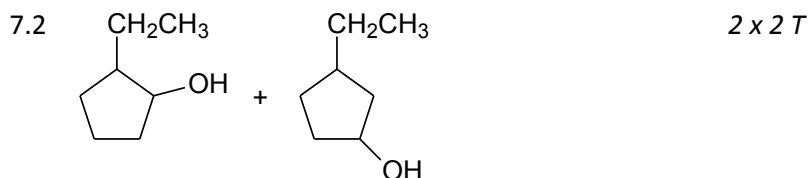
6.4 2 T

6.5 HCl 2 T

**Skupaj: 10 T**

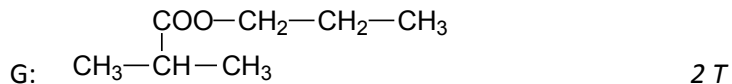
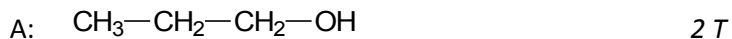
**7. NALOGA**

(Formule spojine s kovalentno vezjo med kisikom in natrijem ne priznamo.)

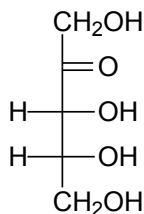


(Upoštevamo tudi zapis enolne oblike - tautomera, če je obenem navedena tudi ketonska oblika).

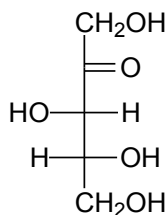
**Skupaj: 10 T**

**8. NALOGA**

**Skupaj: 14 T**

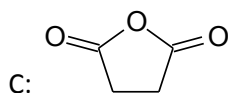
**9. NALOGA**9.1 ogljikovi hidrati *ali* monosaharidi 2 T9.2 C<sub>5</sub>H<sub>10</sub>O<sub>5</sub> 2 T  
(Upoštevamo tudi drugačno zaporedje elementov v molekularni formuli.)

9.3 D-ribuloza: 2 T



D-ksiluloza: 2 T

9.4 D 1 T

**Skupaj: 9 T****10. NALOGA**10.1 C<sub>4</sub>H<sub>10</sub>O<sub>2</sub> 2 T  
(Upoštevamo tudi drugačno zaporedje elementov v molekularni formuli.)10.2 Voda. 1 T  
(Upoštevamo tudi zapis formule vode.)10.3 A: HO—CH<sub>2</sub>—CH<sub>2</sub>—CH<sub>2</sub>—CH<sub>2</sub>—OH 2 T  
B: HOOC—CH<sub>2</sub>—CH<sub>2</sub>—COOH 2 T10.4 A: butan-1,4-diol 1 T  
B: butandiojska kislina 1 T

10.5 Kislinjski anhidridi (upoštevamo tudi odgovor: anhidridi) 1 T

**Skupaj: 12 T****Vse skupaj: 100 T**