

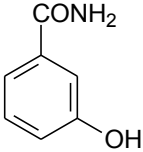
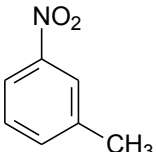
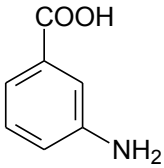
REŠITVE**1. NALOGA**

1.1	$\text{HC}\equiv\text{C}-\underset{\text{CH}_3}{\text{C}}=\underset{\text{CH}_3}{\text{CH}}-\overset{\text{CH}_3}{\underset{\text{CH}_3}{\text{C}}}-\text{CH}=\text{CH}_2$	2 T	
1.2	$sp^3: 4, sp^2: 4, sp: 2$	$3 \times 1 T$	
1.3	23	1 T	
1.4	120°	1 T	
1.5	4 molekule	1 T	
1.6	3,3,5-trimetilheptan	2 T	Skupaj: 10 T

2. NALOGA

2.1	$\text{C}_6\text{H}_{12} + 9\text{O}_2 \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O}$	2 T	
2.2	2,3-dimetilbut-1-en	1 T	
	2,3-dimetilbut-2-en	1 T	
2.3	$\text{CH}_3-\overset{\text{CH}_3}{\text{CH}}-\overset{\text{CH}_3}{\text{CH}}-\text{CH}_3$	2 T	
2.4	Radikalna substitucija	2 T	
2.5	$\text{CH}_3-\overset{\text{CH}_3}{\underset{\cdot}{\text{C}}}-\overset{\text{CH}_3}{\text{CH}}-\text{CH}_3$	1 T	
	$\cdot\text{CH}_2-\overset{\text{CH}_3}{\text{CH}}-\overset{\text{CH}_3}{\text{CH}}-\text{CH}_3$	1 T	Skupaj: 10 T

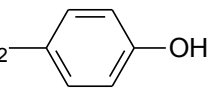
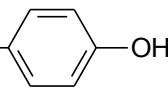
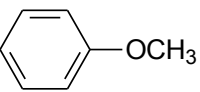
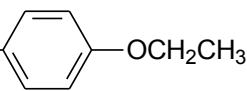
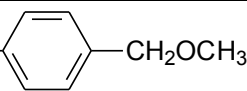
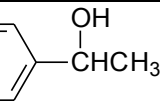
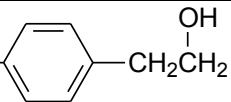
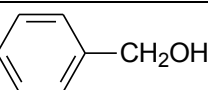
3. NALOGA

3.1		2 T	
3.2		2 T	
	3-nitrotoluen <i>ali</i> 1-metil-3-nitrobenzen	1 T	
3.3		2 T	
	3-aminobenzojska kislina <i>ali</i> 3-aminobenzenkarboksilna kislina	1 T	
3.4	Funkcionalna izomerija	2 T	Skupaj: 10 T

4. NALOGA

A:	CH ₃ CH ₂ CN	2 T	
B:	CH ₃ CH ₂ COOH	2 T	
C:	CH ₃ CH ₂ COCl	2 T	
D:	CH ₃ CH ₂ CH ₂ OH	2 T	
E:	CH ₃ CH ₂ COOCH ₂ CH ₂ CH ₃	2 T	Skupaj: 10 T

5. NALOGA

Racionalna ali skeletna formula	IUPAC ime
$\text{CH}_3\text{CH}_2\text{CH}_2$ -  -OH	4-propilfenol, 1-hidroksi-4-propilbenzen
$(\text{CH}_3)_2\text{CH}$ -  -OH	4-izopropilfenol <i>ali</i> 4-(1-metiletil)fenol <i>ali</i> 4-(propan-2-il)fenol
CH_3CH_2 -  -OCH ₃	1-etil-4-metoksibenzen <i>ali</i> 4-etilanizol
CH ₃ -  -OCH ₂ CH ₃	4-etoksitoluen <i>ali</i> 1-etoksi-4-metilbenzen, etil 4-metilfenil eter
CH ₃ -  -CH ₂ OCH ₃	4-(metoksimetil)toluen <i>ali</i> 1-metil-4-metoksimetilbenzen
CH ₃ -  -CH(OH)CH ₃	1-(4-metilfenil)etanol
CH ₃ -  -CH ₂ CH ₂ (OH)	2-(4-metilfenil)etanol
CH_3CH_2 -  -CH ₂ OH	(4-etilfenil)metanol

Vsaka pravilna formula in pravilno ime spojine: 2 točki.

Vsaka pravilna formula ob napačnem imenu spojine ali brez imena: 1 točka.

Ime spojine se upošteva le, če je formula spojine popolnoma pravilna. Upošteva se tudi, če so številke zamenjane (npr. 1 s 4 in hkrati 4 z 1) prav tako, če je uporabljena pravilno para (oz. p) nomenklatura. Upošteva se le sedem zapisanih formul. Upoštevajo se le tri imena na ustreznih mestih v preglednici. Skupaj največ 10 točk.

Skupaj: 10 T

6. NALOGA

6.1 B < A < D < C 2 T

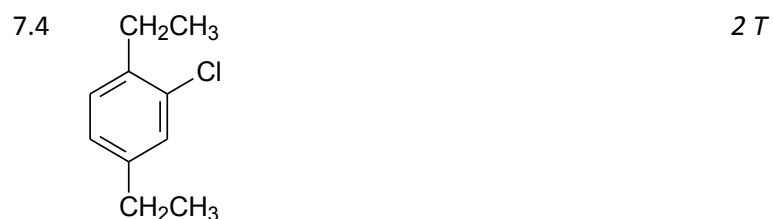
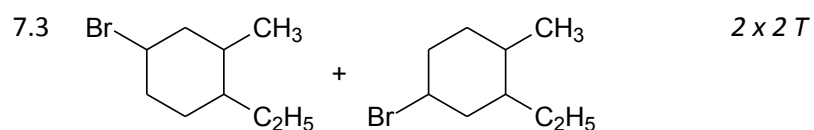
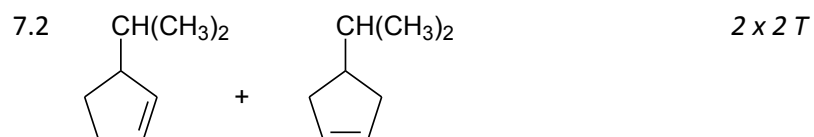
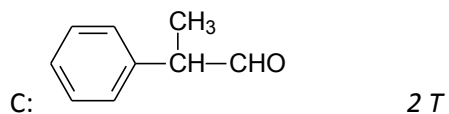
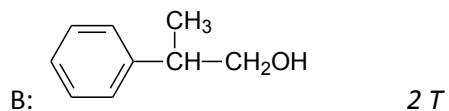
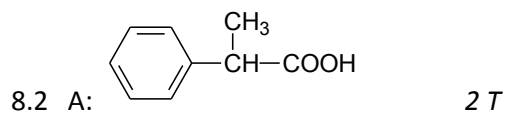
6.2 B < A < D < C 2 T

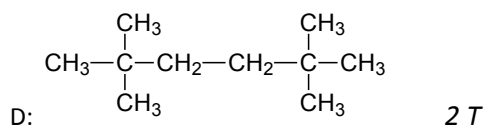
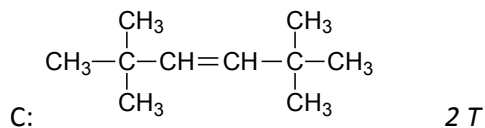
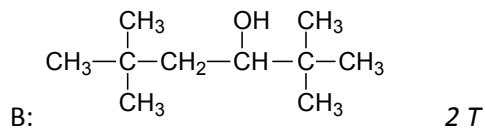
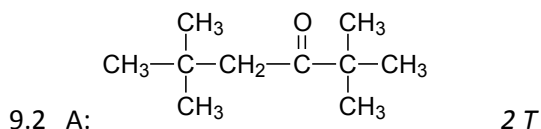
6.3 pentan-1-ol 2 T

6.4 Orientacijske sile 2 T

6.5 2,2-dimetilbutan 2 T

Skupaj: 10 T

7. NALOGA**Skupaj: 12 T****8. NALOGA****Skupaj: 8 T**

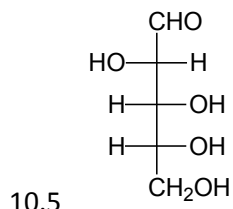
9. NALOGA9.1 C₁₀H₂₂ 2 T**Skupaj: 10 T****10. NALOGA**

10.1 Spojina je aldopentoza (aldoza in pentoza). 2 T

10.2 3 centri kiralnosti. 2 T

10.3 8 možnih optičnih izomerov 2 T

10.4 Spojina je L-monosaharid, ker je v Fischerjevi projekcijski formuli hidroksilna skupina na zadnjem centru kiralnosti usmerjena v levo. 2 T



2 T

Skupaj: 10 T**Vse skupaj: 100 T**