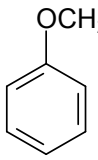
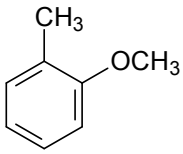
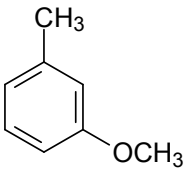
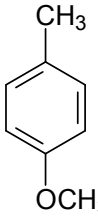
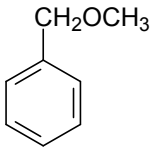
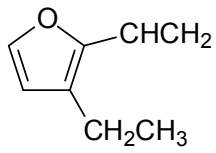
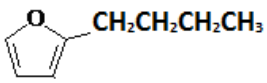
REŠITVE

1. NALOGA

Racionalna ali skeletna formula spojine	IUPAC ime spojine
	etoksibenzen; etil fenil eter
	2-metoksitoluen; 2-metilanizol; *o*-metoksitoluen; *o*-metilanizol; 1-metil-2-metoksibenzen metil-(2-metilfenil)eter
	3-metoksitoluen; 3-metilanizol; *m*-metoksitoluen; *m*-metilanizol; 1-metil-3-metoksibenzen metil-(3-metilfenil)eter
	4-metoksitoluen; 4-metilanizol; *p*-metoksitoluen; *p*-metilanizol; 1-metil-4-metoksibenzen Metil-(4-metilfenil)eter
	benzil metil eter; (metoksimetil)benzen
Kot pravilni se priznajo tudi različni alkil substituirani derivati furana (a je zapis teh spojin v odgovorih malo verjeten), npr.:	
 	2-etenil-3-etilfuran 2-butilfuran

Vsaka pravilna formula in ime spojine se točkuje z *2 T*.

Skupaj: 10 T

2. NALOGA

a) C > E > B > D > A *3 T*

b) pentan *2 T*

c) butan-1-ol *2 T*

d) jodoformska reakcija (bazična raztopina joda);
butanon reagira, pentan-3-on ne reagira *2 T*

Skupaj: 9 T

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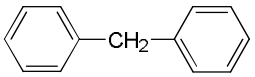
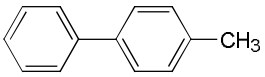
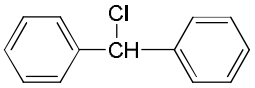
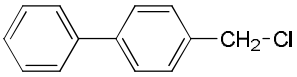
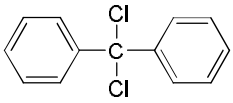
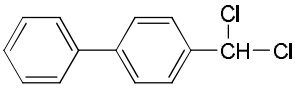
3. NALOGA

a)  ali  (*para*, *meta* ali *orto* izomer) *3 T*

b)  ali  (*para*, *meta* ali *orto* izomer) *3 T*

c)  ali  (*para*, *meta* ali *orto* izomer) *2 T*

d) Svetloba ali toplota povzročita razpad molekule klora na atome. *2 T*

Skupaj: 10 T

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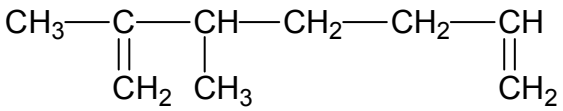
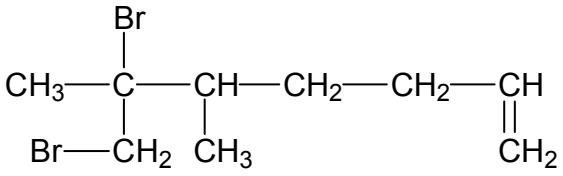
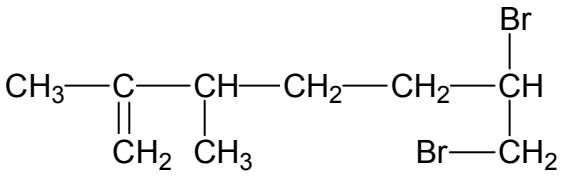
4. NALOGA

4.1  *2 T*

4.2 2,3-dimetilhepta-1,6-dien *2 T*

4.3





2 x 2T

4.4 En center kiralnosti. *2 T*

Skupaj: 10 T

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5. NALOGA

a) Reakcija poteče v prisotnosti HNO_3 / H_2SO_4 ali koncentrirane HNO_3. *3 T*

b) Reakcija poteče le v prisotnosti katalizatorja, npr. $AlCl_3$. *3 T*

c) Reakcija poteče v prisotnosti katalizatorja (Pd, Pt ali Ni) pri visoki temperaturi in tlaku. *3 T*

d) Reakcija poteče le v prisotnosti $KMnO_4$ /H^+ v prebitku ali kisika v prisotnosti specifičnih Katalizatorjev pri višji temperaturi *3 T*

Skupaj: 12 T

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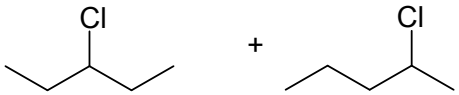
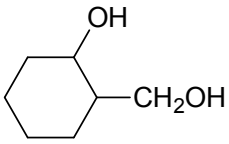
6. NALOGA

a)  *2 T + 2 T*

b)  *2 T + 2 T*

c)  *2 T*

Skupaj: 10 T

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7. NALOGA

a) DA. Metanol reagira z natrijem (razvijanje vodika), eter pa ne. *2 T*

b) NE. Obe spojini reagirata na enak način. *2 T*

c) DA. Butanojska kislina reagira z $NaHCO_3$ (sproščanje CO_2), fenol pa ne. *2 T*

d) NE. Obe spojini dajeta pozitivno jodoformsko reakcijo. *2 T*

e) DA. Pentan-1-ol (1°alkohol) reagira s kislo raztopino kromata (sprememba barve v zeleno), 3°alkohol pa ne. *2 T*

Skupaj: 10 T

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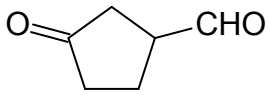
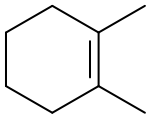
8. NALOGA

a) 

+ HCHO

2 T + 2 T

b) 

4 T

Skupaj: 8 T

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9. NALOGA

A $H_2C=CH_2$

B H_3C-CH_2-OH

C H_3C-CH_2-Br

D H_3C-CH_2-CN

E H_3C-CH_2-COOH

F H_3C-CH_2-COCl

G $H_3C-CH_2-COO-C_2H_5$

Vsaka pravilno zapisana formula *2 T.*

Skupaj: 14 T

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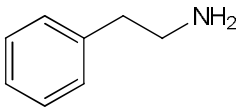
10. NALOGA

a) $C_8H_{11}N$ *3 T*

b) 

4 T

Skupaj: 7 T

Vse skupaj: 100 T