

Adı Soyadı:

Numarası:

Tarih: 01/06/2015

Dersin Adı: *Organik Kimya II* (final)

Bölümü: *Kimya Tekn.*

Yarı yıl: *Bahar 2015*

Sınıfı *II*

N.Ö

i.Ö

Öğrencinin İmzası

Öğretim Elemanı Adı Soyadı: *Prof. Dr. Mustafa ODABAŞOĞLU*

1. Aşağıda adları verilenlerin formüllerini yazınız (20 Puan).

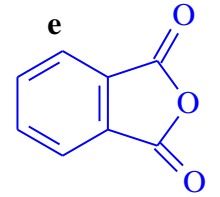
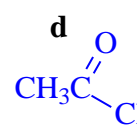
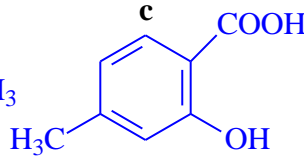
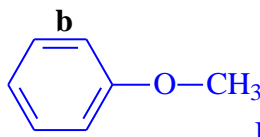
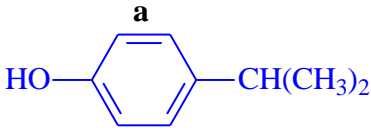
a) *o*-aminokümen

b) anisol

c) 4-metilsalisilik asit

d) asetil klorür

e) ftalikanhidrit



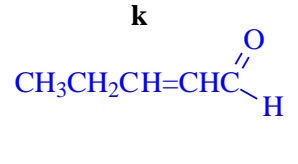
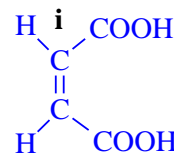
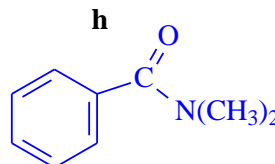
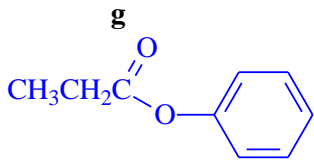
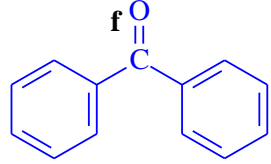
f) benzofenon

g) fenilpropiyonat

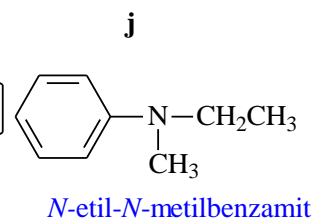
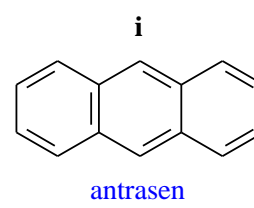
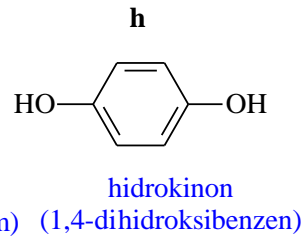
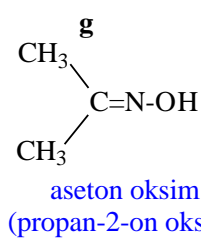
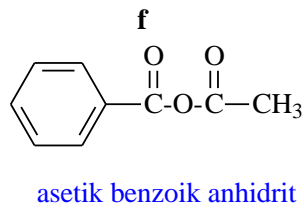
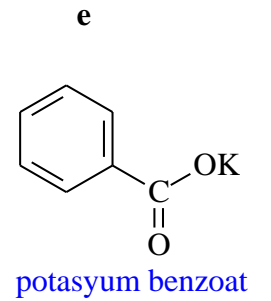
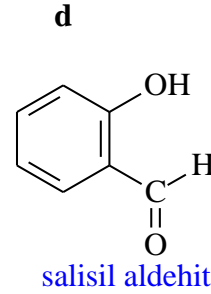
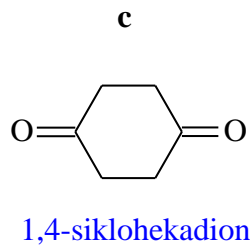
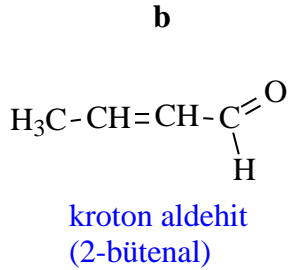
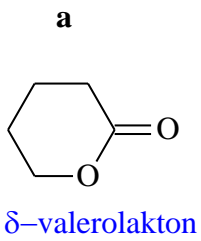
h) *N,N*-dimetilbenzamid

i) maleik asit

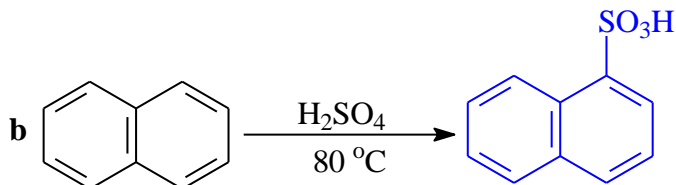
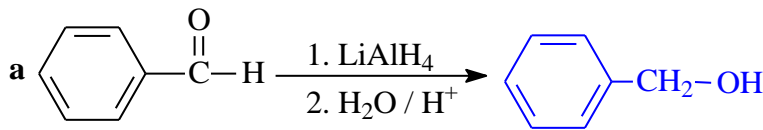
k) 2-pental

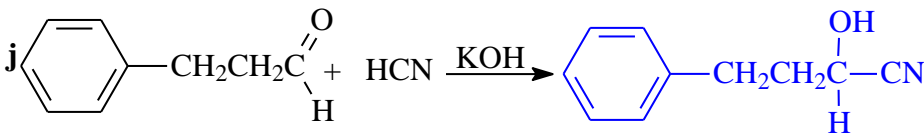
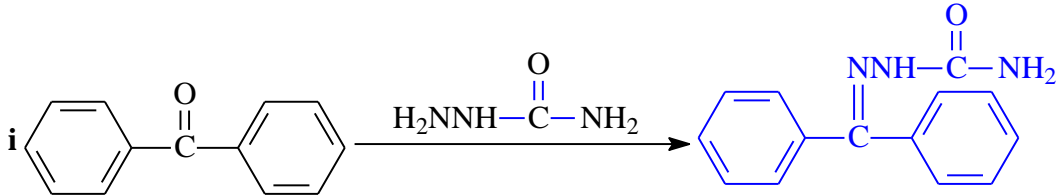
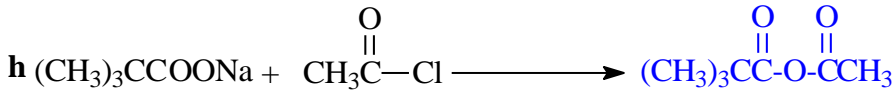
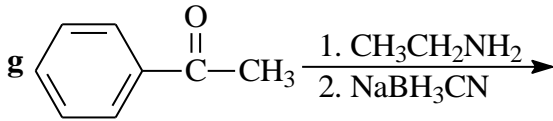
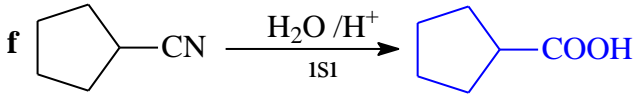
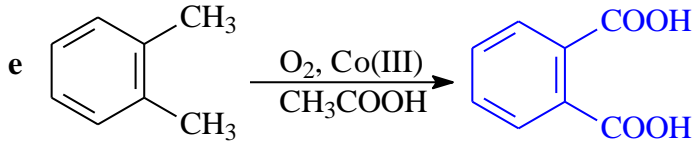
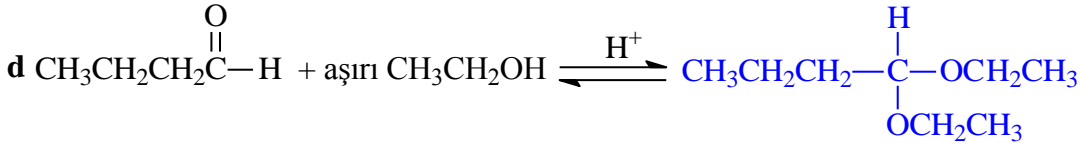
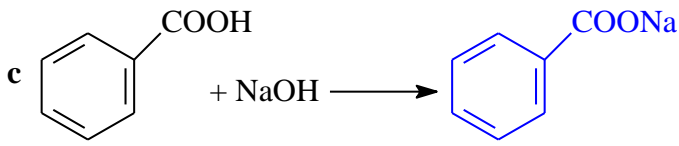


2. Aşağıda formülleri verilenlerin adlarını yazınız (20 Puan).

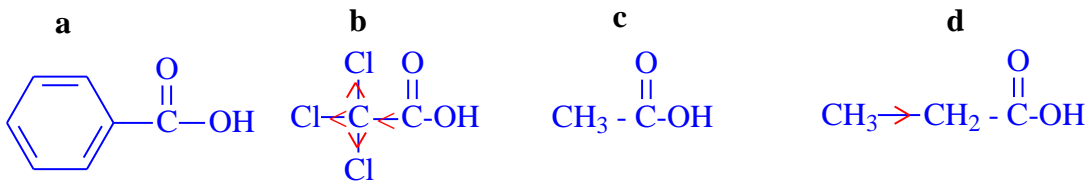


2. Aşağıda verilen reaksiyonları tamamlayınız (30Puan).



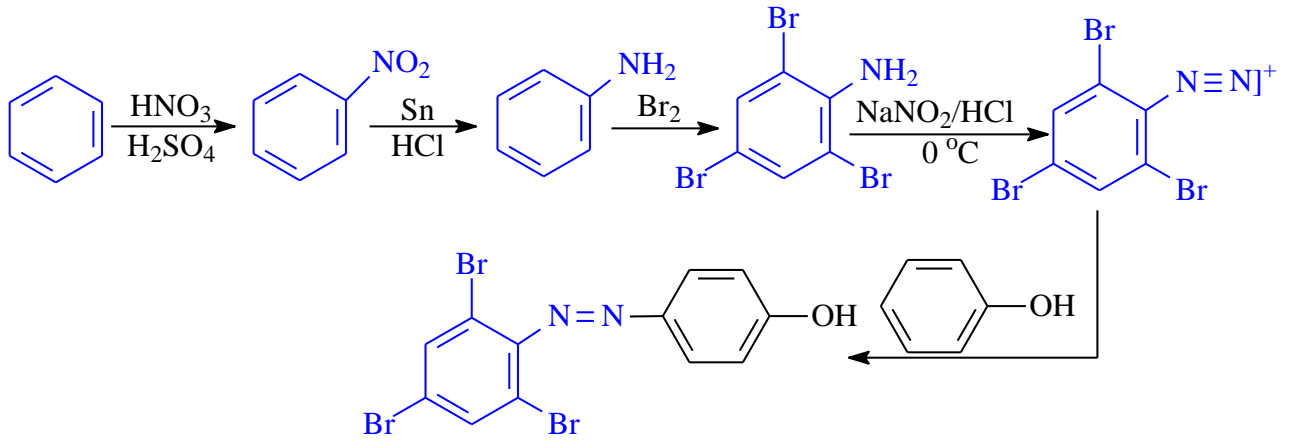


3. Aşağıda verilen bileşiklerden hangisi daha kuvvetli asittir? Nedenlerini açıklayarak asitliklerini sıralayınız? (10 Puan)



Bir bileşik H^+ iyonunu ne kadar kolay veriyorsa o kadar kuvvetli asittir. Aromatik asitler alifatik asitlerden daha asidiktirler (**a**, **c** ve **d** den daha kuvvetlidir). Alifatik asitlerde zincirde bulunan elektron çekici gruplar asitliği artırır. Elektronegatif üç klor atomu bağ elektronlarını çok kuvvetli bir şekilde çektiğinden asitliği artırır ve **a** dan daha kuvvetli asit haline gelir. **d** bileşiğinde metil grubu elektron verici özellikğe sahip olduğundan asitlik **c**'den daha zayıf olur. Buna göre asitlik sıralaması; **b** > **a** > **c** > **d** olur.

4. Uygun reaktifler kullanarak benzenden 1-hidroksi-2',4',6'-tribromazobenzen sentezleyiniz. (10 Puan)



5. Uygun reaktifler kullanarak etanaldan (asetaldehitten) 3-hidroksibütanal sentezleyiniz (10 Puan)

