

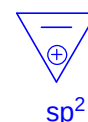
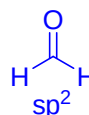
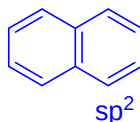
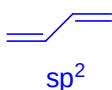
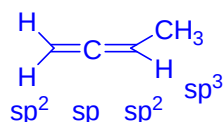
3. Klausur zur Vorlesung Organische Chemie I SS 2012

Mi. 28. 11. 2012 14:30-16:00

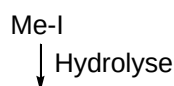
Vorname:	Matrikel-Nr.:
Nachname:	Studiengang / Semester:
Unterschrift prüfungsfähig:	
Antworten Sie so knapp wie möglich direkt unter den Fragen. Rückseiten, Schmierpapier und extra Blätter werden nicht gewertet. Bei <i>Zeichnungen</i> sind stets <i>Lewis-Strukturen</i> verlangt. Max: 100 Pkt. best. ab 50 Pkt.	

1 ^(10Pkt) Zeichnen Sie und geben Sie jeweils die Hybridisierung der C-Atome an:

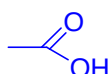
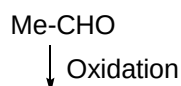
1,2-Butadien: 1,3-Butadien: Naphthalin: Methanal: Cyclopropenylkation



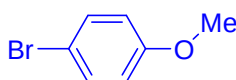
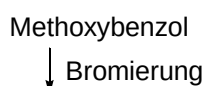
2 ^(15Pkt) Zeichnen und benennen Sie die organischen Produkte:



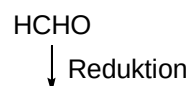
Methanol



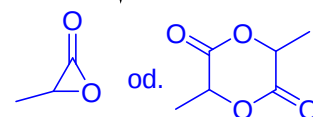
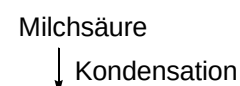
Essigsäure



Brommethoxybenzol

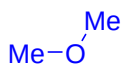
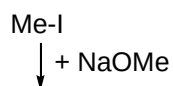


Methanol

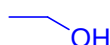
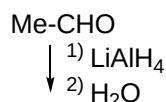


Lacton
3-Methyloxiran-2-on
od.
Lactid

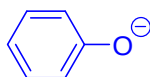
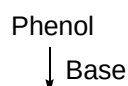
3 ^(15Pkt) Zeichnen und benennen Sie die organischen Produkte:



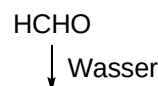
Dimethylether



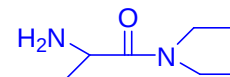
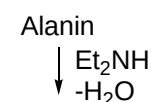
Ethanol



Phenolat



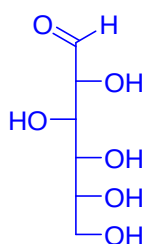
Formaldehyd-
Hydrat



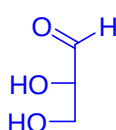
N,N-Diethyl-2-aminopropan
(säure)amid

4 ^(15Pkt) Zeichnen Sie:

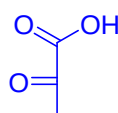
D-Glucose



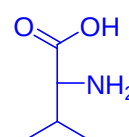
L-Glycerinaldehyd



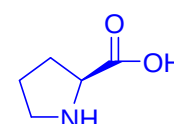
Brenz-
traubensäure



R-Valin



S-Prolin



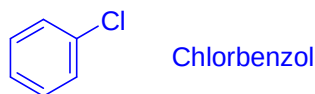
5^(40Pkt) Zeichnen & benennen Sie die organischen (Haupt)Produkte

(insges. zehn *unterschiedliche* Strukturen):

Propan + Brom + $h\nu \rightarrow$



Benzol + Chlor + Lewis-Säure $\rightarrow$



Cyclohexen + Brom $\rightarrow$



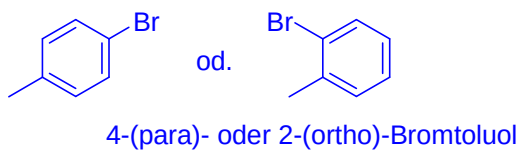
Bromcyclohexan + NaOH $\rightarrow$ a)



Bromcyclohexan + NaOH $\rightarrow$ b)



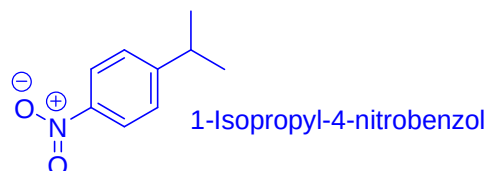
Toluol + Brom + Lewis-Säure $\rightarrow$



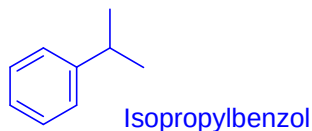
Toluol + Brom + $h\nu \rightarrow$



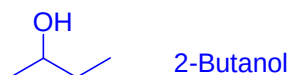
Isopropylbenzol + Salpetersäure $\rightarrow$



Benzol + Propen + Säure $\rightarrow$



1-Buten + Wasser + Säure $\rightarrow$



6^(5Pkt) Formulieren Sie: Reaktanden $\rightarrow$

Urotropin (Struktur) $\rightarrow$

Hydrolyse-Produkte

