

Reg No.

--	--	--	--	--	--	--	--	--	--

The Open University of Sri Lanka
B.Sc Degree / Stand Alone Programme 2012/2013
Organic Chemistry II – CMU3120
Level 5 - Continuous Assessment Test II
Duration 1½ Hours

Q	Marks	
	Max	Awarded
1	40	
2	30	
3	22	
4	28	
Total		

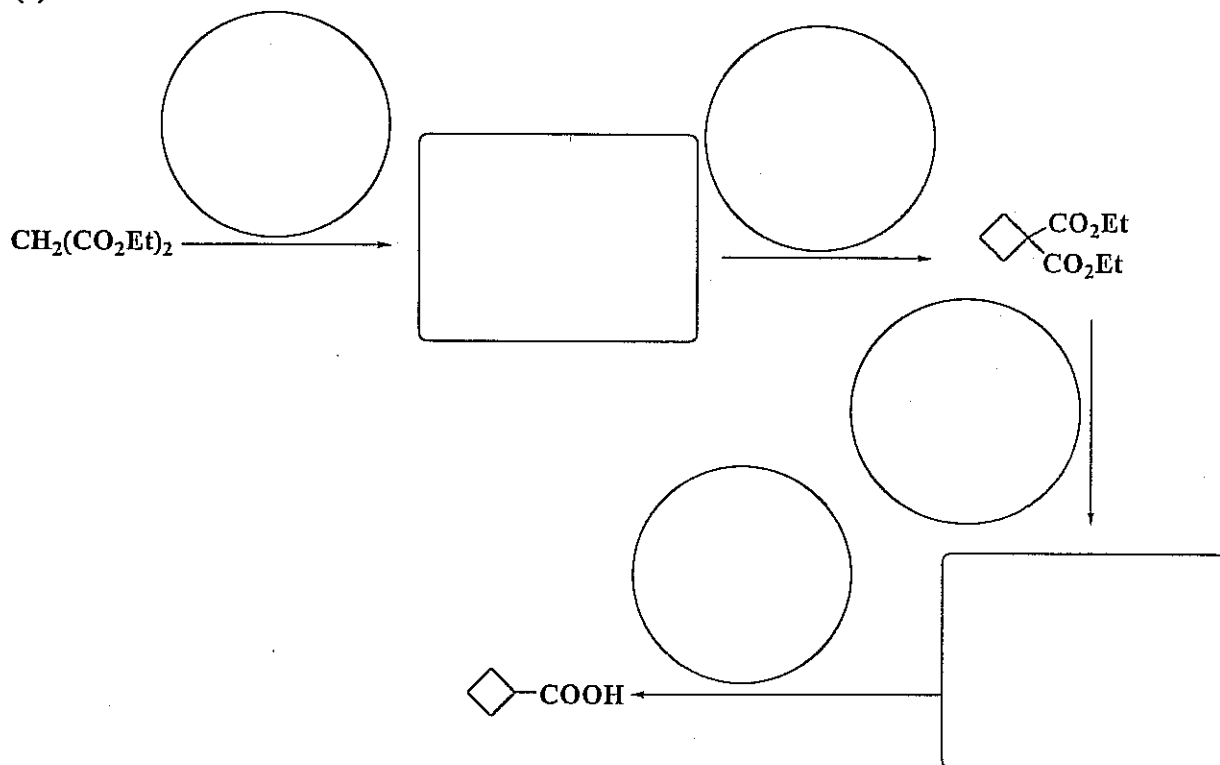
29th March 2013

Time : 4.00 p.m. – 5.30 p.m.

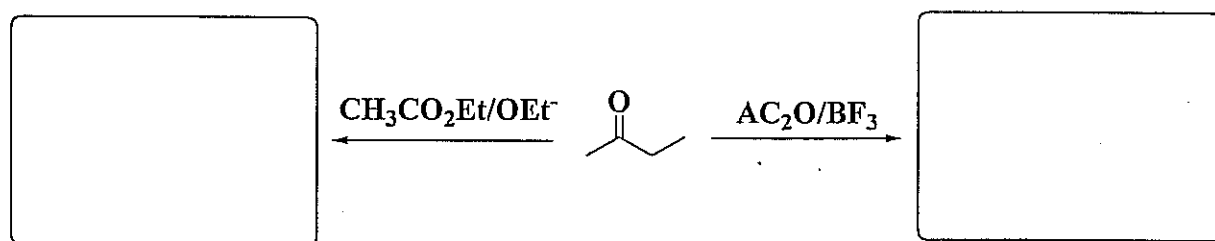
Maximum marks allocated to this paper are 120. However a candidate who scores 100 marks or above will be awarded 100% and those scoring less will be awarded the score they make.

1 Give the products and the reactants of the following reactions.

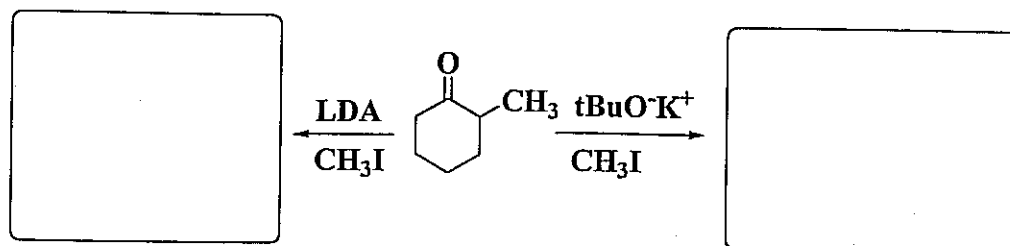
(a)



(b)



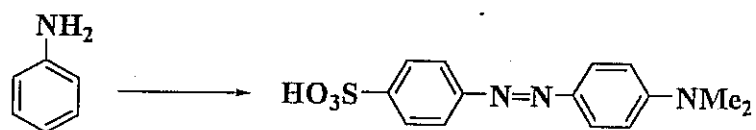
(c)



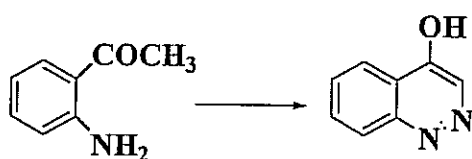
2. Give necessary reagents and conditions for following conversions.

(Marks 40)

(a)



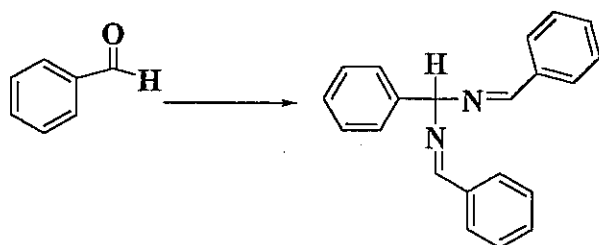
(b)



(c)

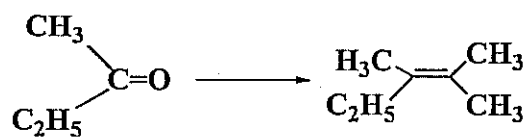
Reg No :

--	--	--	--	--	--	--	--	--	--



- 3 Indicate clearly the mechanisms of the following reactions.
(Hint: Reagents used Ph_3P , PhLi , THF)

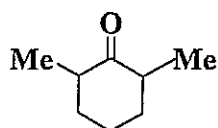
(Marks 30)



(Marks 22)

4. Give the method for the synthesis of the following.
(a) *cis* & *trans* diols from 2-butene

(b)



from HCHO via dithioacetal.

(Marks 28)

Registration Number

--	--	--	--	--	--	--	--	--	--

Name

Address

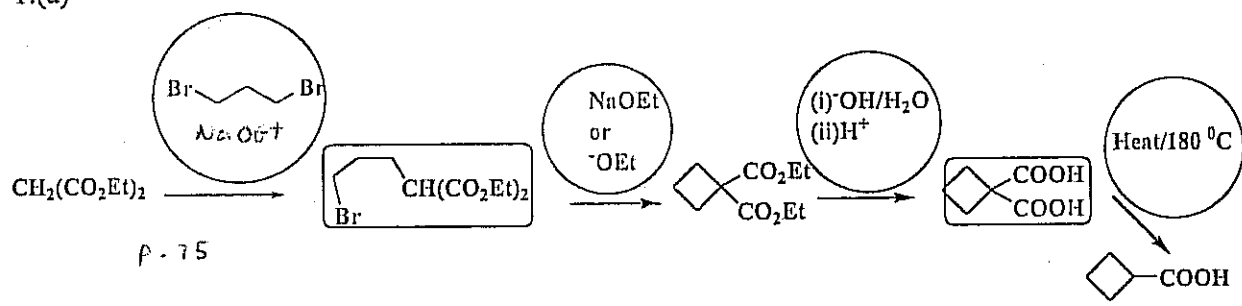
.....

.....

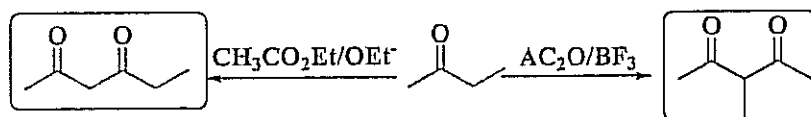
.....

The Open University of Sri Lanka
 B.Sc Degree / Stand Alone Programme 2012/2013
 Organic Chemistry II – CMU3120
 Level 5 - Continuous Assessment Test II
 Answer Guide

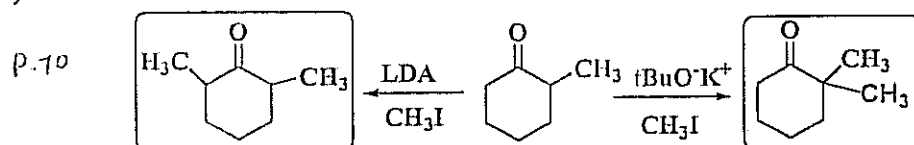
1.(a)



b)

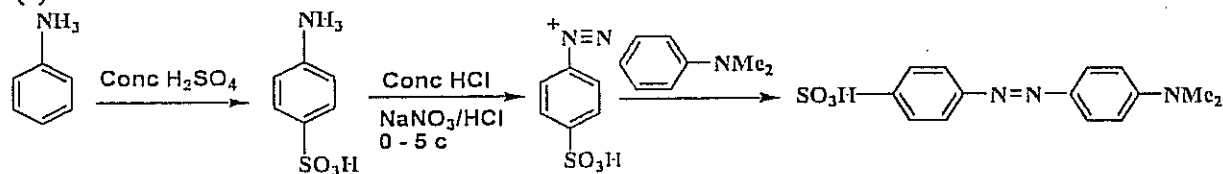


(c)

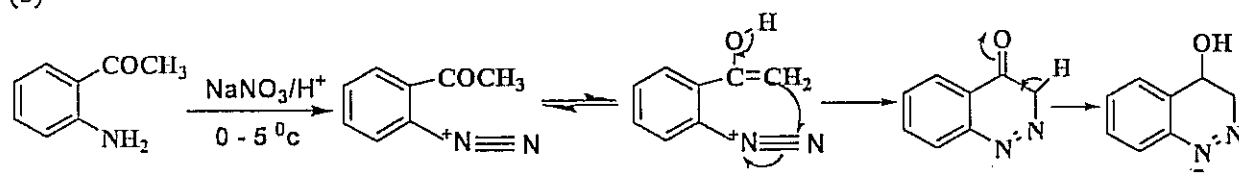


2. Give necessary reagents and conditions for following conversions.

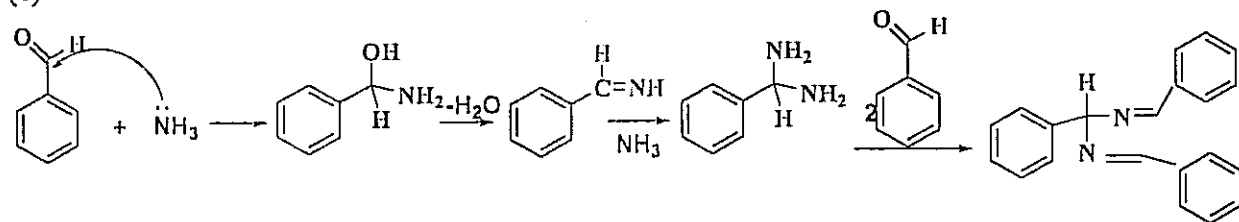
(a)



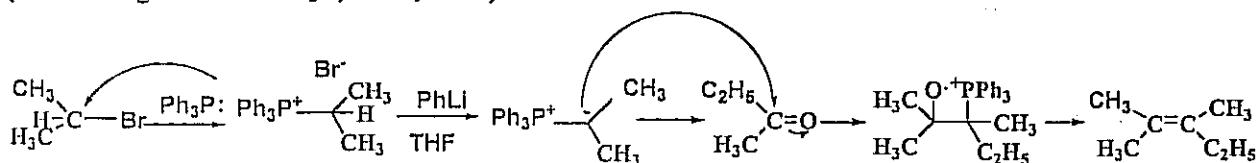
(b)



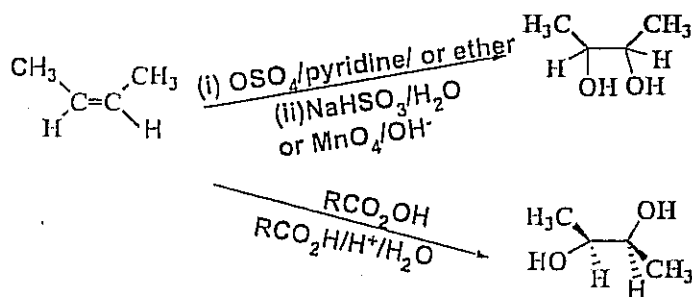
(c)



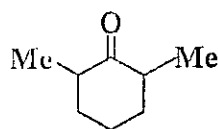
3. Indicate clearly the mechanisms of the following reactions.
(Hint: Reagents used Ph_3P , PhLi , THF)



4. Give the method for the synthesis of the following.
(a) *cis* & *trans* diols from 2-butene



(b)



from HCHO via dithioacetal.

