

Chemistry 334

Third Hour Examination

November 21, 1994

Professor Charonnat

Name: _____

Be certain that your examination has four (4) pages including this one.

Put your name on **each** page of this examination booklet.

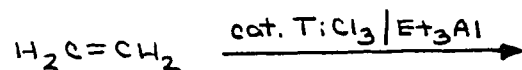
By putting your name on this examination booklet you agree to abide by California State University, Northridge policies of academic honesty and integrity.

Name: _____

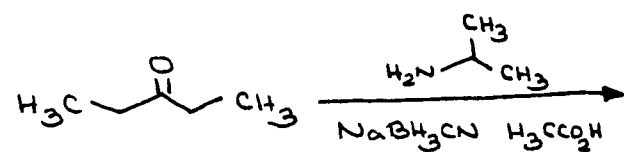
1. (30 points)

For each of the following six (6) questions draw the expected major organic product. If relevant, **clearly** specify the relative and/or absolute stereochemistry of the product.

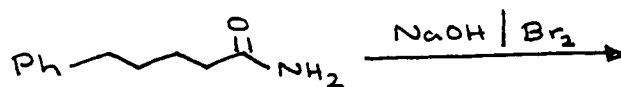
A.



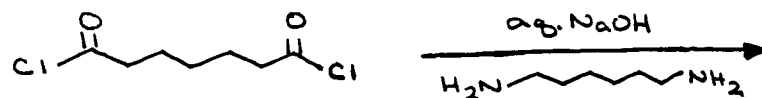
B.



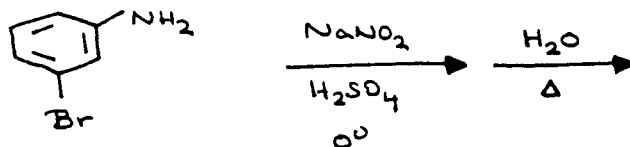
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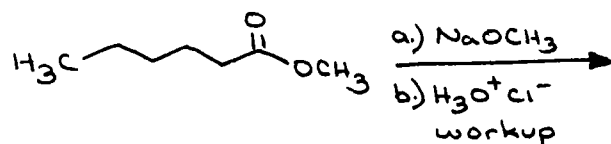
D.



E.



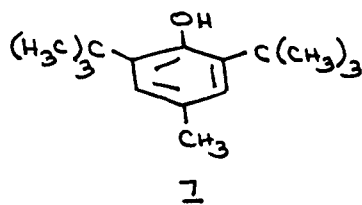
F.



Name: _____

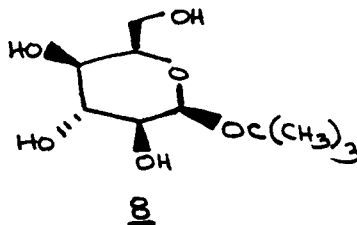
4. (10 points)

Why is the substituted phenol **7** ("butylated hydroxytoluene"; BHT) an excellent inhibitor of free-radical chain reactions? Draw resonance structures to illustrate your answer.



5. (10 points)

Draw the most stable conformation of the glycoside **8**. Clearly denote all 1,3-diaxial interactions.



Congratulations!

1	/30
2	/25
3	/25
4	/10
5	/10
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Total:	/100