

Course No:  
Course Title: Organic Chemistry  
Date: 25/03/2013  
No. of Questions: (6)  
Time: 1 hours  
Using Calculator (No)

University of Palestine



Midterm Exam  
2012/2013  
Total Grade:

Instructor Name: \_\_\_\_\_  
Student No.: \_\_\_\_\_  
Student Name: \_\_\_\_\_  
College Name: \_\_\_\_\_  
Dep. / Specialist: \_\_\_\_\_  
Using Dictionary (No)

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Answer the following questions:

1) Draw the following organic compounds: [5 marks]

a) 2-hydroxybut-3-enoic acid

b) 1,1,2,2-tetrabromobutane

c) 1,4-hexadiyne

d) Cyclopentanone

e) 4-chlorocyclohexene

2) An alkene was cleaved oxidatively by hot acidified Potassium Manganate. A mixture of ethanoic acid and propanone was produced. Find out the original alkene. [4 marks]

**3)** Hex-3-ene was treated with hot acidified potassium manganate. Show the reaction naming the final products on complete oxidation. [4 marks]

**4)** Construct the equations to show the reaction between propyne and 2 moles of hydrogen iodide. [marks]

**5)** Write a balanced equation to describe the combustion of 1-pentyne. [3 marks]

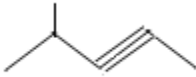
6) Give an IUPAC name for each of the following : [10 marks]

a)



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b)



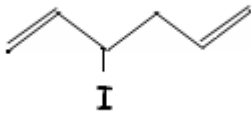
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c)



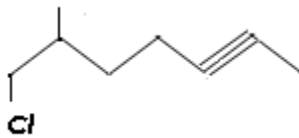
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d)



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e)



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End