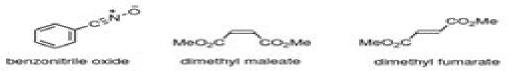
- Answer ALL of the following parts.
  - (a) The structure of benzonitrile oxide is given below.



- Give the reagents that are needed to make benzonitrile oxide from benzaldehyde.
- (ii) Work out the cycloaddition product of benzonitrile oxide with dimethyl maleate and dimethyl fumarate showing clearly the stereochemistry in each case.
  (2, 6 marks)
- (b) Consider the scheme below:

- (i) Give the reactant and reagent needed in step 1.
- (ii) Show the mechanism for step 2.
- (iii) What would happen to the rate of reaction of step 2 if the methoxy group in A was replaced by a nitro group? Explain your answer.
- (iv) In step 2 an alternative product to B may be formed in theory. Draw this product and explain why it is not formed in practice.

(1, 3, 2, 4 marks)

(c) Consider the following scheme and work out the structures of C and D.

(4, 3 marks)

# **Heterocyclic Chemistry Exam Questions**

**Emilie Sanchez** 

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