

4. 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.
- 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:



- Give the reactant and reagent needed in step 1.
- Show the mechanism for step 2.
- 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.
- 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

David Kirk



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