Name:

Student No ...

ARSWER ALL THE FOLLOWING QUESTIONS:-

PB

O1] In each of the following arbitrary compounds, give the name for each circled heterocyclic nucleus

10 pts

Write a clear mechanism for <u>each</u> of the following two reactions shown below. (For full credit be sure to show all intermediates and any formal charges in your structures).

6 pts

O3] a] Which is more acidic? Justify your answer

b] Draw the structures of Quinidine sulfate and quinidine dipicrate.

106]

C₃I

How the following conversions might be accomplished?

05] a. Friedel-Crafts alkylation is uncontrolled reaction. Explain briefly

Q7]

M

b. What does aniline protection-deprotection mean? Explain briefly

c. Exemplify imine, semicarbazone and sulfonamide functionality

10) Q6] Provide the missing

· 97]

ly

fly

a. Provide the IUPAC name for the following compound:-

b. Provide the structure for the following given name
5-Acoust 5 align 6 beaugithin 4 dimethylaminobeaucyl bromid

98] a. Provide the well-known name for the following well-known to

b. What is wrong in the following reaction?

