Quiz #10

4/15/2022

1) Nomenclature: Provide a systematic (IUPAC) name or draw the structure for each of the following compounds. (4 pts)

![ortho-Aminobenzaldehyde](image1)

![1R,2S)-2-Methylcyclohexanamine](image2)

2) Determine the following structures. (4 pts)

![Reaction 1](image3)

![Reaction 2](image4)

![Reaction 3](image5)

3) Provide the products and draw a mechanism for the following transformation. (3 pts)

![Transformation](image6)
4) Starting with benzene and any reagents with three or fewer carbon atoms, show how you would prepare the following compound and propose a mechanism for the last step Azo coupling reaction. (5 pts)

5) Propose an efficient synthesis for each of the following transformations. (9 pts)
6) Propose a plausible mechanism for the following transformation and justify the stereochemical outcome. (2 pts)