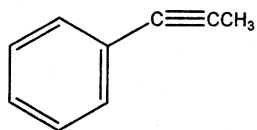
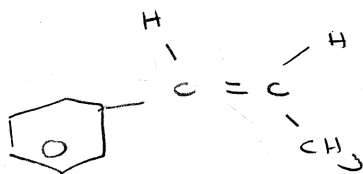


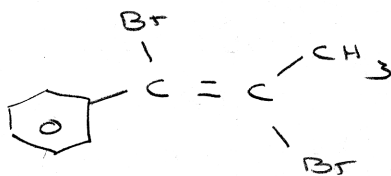
Give the structure of the chief organic product(s) expected from the reaction of 3-phenyl-2-propyne.



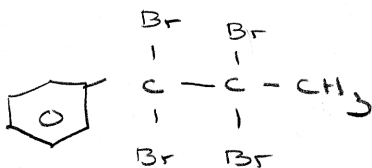
H<sub>2</sub>/Pd-C



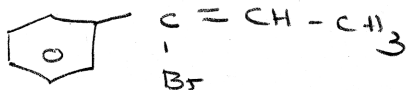
Br<sub>2</sub>



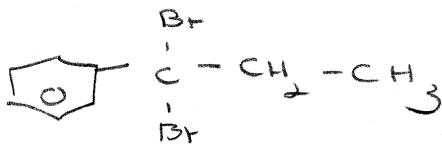
2 Br<sub>2</sub>



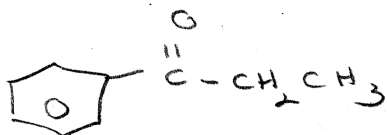
HBr



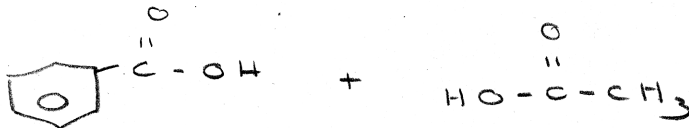
2 HBr



H<sub>2</sub>O, H<sup>+</sup>



KMnO<sub>4</sub>



Na

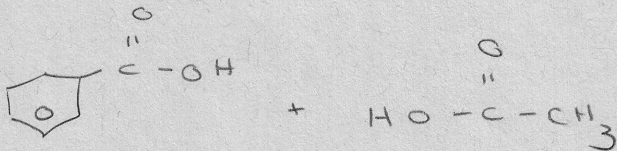
N.R. Terminal ONLY 0

Ag<sup>+</sup>

N.R.

Terminal ONLY

O<sub>3</sub>; Then H<sub>2</sub>O, Zn



KMnO<sub>4</sub>, Δ



XS H<sub>2</sub>, Ni, Δ, Pressure

