Student Name:

Exam

Third Class 21-11-2023

**I- For the following molecules, give the correct name.**

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**II- Draw the structure for the following compounds**

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| Oxalic acid | *Triphenylacetic acid* | *Ammonium butyrate*  |
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**III- Arrange the following set of compounds in order of acidity**

**A) *p*-Bromobenzoic acid, *p*-nitrobenzoic acid, 2,4-dinitrobenzoic acid**

 **B) Acetic acid, Chloroacetic acid, Dichloroacetic acid, Trichloroacetic acid**

**IV- Devise a synthesis of pentanoic acid from butanoic acid.**

**V- Show how butanol can be converted butanoic acid.**

**VI- Suggest mechanism for one of the following transformations**

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