Provide a written summary of the Pentose Phosphate Pathway. In your summary, describe the purpose of the pathway and the chemistry (i.e oxidation reduction, hydrolysis, oxidative decarboxylation, etc.) and enzymes for each step. Your summary should also discuss the origins and destination of substrates and products of the pentose phosphate pathway. To provide clinical relevance to your summary, discuss how defects in glucose-6-phosphate dehydrogenase within the pentose phosphate pathway disproportionately affect certain ethnic populations and the physiological outcome of such populations.

**Particulars/Guidelines:**

**Format:** Your summary should include chemical structures and a net equation for the Pentose Phosphate pathway. Pasting from websites without proper citations is considered plagiarism and violates the Winthrop Student Code.

**Length**: There is no defined length for this assignment so you are free to incorporate as much information as is needed to adequately fulfill the above requirements.

**References:** You should provide at least two primary literature references formatted according to the ACS style guide.