**Practice Question**

**NLPP**

**Type-1: WITHOUT CONSTRAINT**

Find maximum or minimum of the following functions

**1.**

**2.**

**3.**

**4.**

**5.**

**6.**

**TYPE-2: LAGRANGE’S METHOD**

Using the method of Lagrange’s multipliers, solve the following NLPP

**1.** Optimize Subject to

**.** Optimize

Subject to

**3.** Optimize Subject to

**4.** Optimize Subject to

**TYPE-3 KUHN TUCKER CONDITIONS**

Use the Kuhn-Tucker conditions to solve the following NLPP

**1.** Maximize Subject to

**2.** Minimize Subject to

**3.** Maximize Subject to

**4.** Maximize Subject to

**5.** Maximize Subject to