**Question Bank For Engineering Irrigation System**

**Q)** Gamble the discharge of the rectangular channel is **1.4m3/s** and the velocity of the flow water in the channel is **0.5m/s.** Calculate the hydraulic radius of the channel, assuming the depth of water as **80cm.**

**Q/** Enumerate the secondary sources of irrigation water.

**Q/** Define Available water holding capacity, then express the relation between the heaviness of the soil texture and the water content.

**Q)** Calculate the quantity of the irrigation water required to change the volumetric water content from **0.21 to 0.35.** Consider that the depth of the studied soil is **70cm.**

**Q/** List the important advantages of sprinkler irrigation.

**Q/** If the throw diameter of the sprinkler is 40m.Find the distance between two adjacent sprinklers along the lateral and the distance between two adjacent two adjacent laterals.

**Q/** What are the main differences between sprinkler and drip irrigation.

**Q/**Define RDI, and then and what is the Mechanism of the system working.