Qy 3(i)

(a) According to the types of Energy Available at inlet:-

(i) Impulse turbine :→ In an Impulse turbine, all the avalable energy of water is converted into Kinetic enegy or velocity head.

Exp:- Pelton wheel turbine.

(ii) Reaction turbine :- In a reaction turbine, at the entrance to the runner, only a part of the avalable energy of water is converted into Kinetic energy and a substantial part remains in the form of pressure Energy.

Exp Francis turbines, Kaplan turbine.

(b) According to the Direction of flow through Runner :-

(i) Radial flow turbines :- In the turbine, the water flows along the radial direction.

Exp Francis turbines.

(ii) Axial flow turbine :- In this turbine water flows through the runner wholly and mainly along the

of rotation of the runner

Exp Kalpan turbine.

(C) According to the head at Inlet of turbine :→

(i) High head turbine :→ High head turbine are those which are Kaplan of working under very high ranging more than 250 m

Exp Pelton wheel turbine

(ii) low head turbine :→ low head turbines are those which are capable of working under head. less than 60 m.

Exp Kaplan turbine.

(d) According to the Specific Speed of the turbine :→

(i) Medium Specific Speed turbine :→ Ranging between 60 to 300.

Exp: Francis turbine.

(ii) High Specific Speed turbine :→ Ranging between 300 to 1000.

Exp Kalpan turbine