

**Class Test -1**

**Student ID – Time: 40 min** Q-1. What are the differences between pJFET and pMOSFET (enhancement type)

**Q-2.** For a FET (N-type),  $I_{DSS} = (7 + \text{Last digit of your ID}) \text{ mA}$  and  $V_p = - (6 + \text{Sixth digit of your ID}) \text{ V}$ . Sketch the transfer curve of the Transistor. Then **find  $I_D$  at  $V_{GS} = -4 \text{ volt}$  from the graph.** Also **calculate  $V_{GS}$  at  $I_D = 6 \text{ mA}$  by mathematical technique** (You can use the following graph or a freehand drawing).



