**CE101 Engineering Drawing July- Nov 2019**

**Indian Institute of Technology Guwahati**

**Lab Sheet-9 Development of Surfaces Thursday Afternoon**

**Full Marks: 100 Date:24.10.2019**

1. Draw the development of the complete surface of a pentagonal pyramid of base 30 mm and height 70 mm showing its FV & TV. (15 Marks)
2. A pentagonal prism of side of base 30 mm and length of axis 50 mm is kept on the ground on its base. A section plane inclined at 55° to the base bisects the axis. Draw the development of lateral surfaces of the prism when one of the rectangular face is parallel to the VP. (35 Marks)
3. A square hole is made in a semi-circular plate of diameter 100 mm. The centreline of the semi-circle is one of the diagonals of the square hole. The plate is folded to form a cone resting on its base on the HP. Draw the FV and TV of the cone with the hole marked on it. (50 Marks)