**CE101 Engineering Drawing July- Nov 2019**

**Indian Institute of Technology Guwahati**

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

**Full Marks: 100 Date:21.10.2019**

1. Draw the development of the complete surface of a tetrahedron of side 40 mm including FV & TV (15 Marks)
2. A hexagonal pyramid of side of base 30 mm and length of axis 80 mm is kept on the ground on its base. It is cut by a section plane inclined at 45° to the base and cutting the axis at 45 mm from the apex. Draw the development of lateral surfaces of the pyramid when a base edge is parallel to the VP. (35 Marks)
3. A parabola of 150 mm base and 72 mm height is enclosed in a thin rectangular metal sheet, which is then wrapped to form a cylinder. Draw the projections of the cylinder with the corresponding parabola marked on it. (50 Marks)