Programme	:	B.Tech (Mechanical)	Semester	:	FALL SEM 2021- 2022
Course Title			Code	:	BMEE102P
		VISUALIZATION	Class Nbr	:	CH2021221700751
Faculty	:	Dr G Venkatachalam	Slot	:	L31+L32+L49+L50
Date of	:	10/Jan/2022	Max. Marks	:	40
Exam					

Part A - Answer any 2 questions – $(2 \times 10 = 20 \text{ marks})$

- 1. Line AB is "50" mm long. It is inclined to both [45°] HP & [20°] VP. End A is 10 mm above HP and 15 mm in front of VP.
- 2. Draw the projection of a solid cone of 40mm radius and 60mm height and one of the generators of the cone is resting on HP such that its axis is parallel to VP. [Use (only) 2D option in solidworks]
- 3. A cone of 30 mm diameter and 50 mm height rests on HP. It is cut by a plane perpendicular to VP and 45° inclined with HP. The cutting plane passes through the axis at a distance of 30 mm from the base. Draw the Front view, Sectional Top view and true shape of section. [Use (only) 2D option in solidworks]

Part B - Answer any 2 questions
$$-(2 \times 10 = 20 \text{ marks})$$

- 4. A hexagonal prism of side of base 35 mm and 55 mm axis height rests on HP. It is cut by a plane perpendicular to VP and 40° inclined with HP. The cutting plane passes through the axis at a distance of 35 mm from the base. Draw development of lateral surface of truncated prism.
- 5. A hexagonal prism. 30 mm base side & 55 mm axis is lying on HP. Draw its isometric projection. [Use (only) 2D option in solidworks].
- 6. A triangular pyramid of 30 mm base sides and 50 mm long axis, is centrally placed on the top of a cube of 50 mm long edges. [Use **3D** option in solidworks].