Thermodynamics (MEL2020)
Indian Institute of Technology Jodhpur

Assignment-8 Date: 06th March 2022

Maximum points: 1 **Instructions:**

- *Answer all the questions*
- *Please write your solutions/explanations on a paper with your handwriting*
- *Scan all pages as a single pdf file and upload in google classroom before 06-03-22*
- *This will give you **1 point** towards your total evaluation,*
- ***Late submission lead to deduction of half mark.***

A tank (1 L) initially contains 0.4 kg of saturated mixture of R-134a at 26 ^{o}c. A valve is opened and R-134a vapor only is allowed to escape slowly such that temperature remains constant and the final mass of R-134a is 0.1 Kg. The heat transfer necessary with the surroundings to maintain the temperature and pressure of the R-134a constant is to be determined.