**20-02-2024**

**EXP 2:**

1. What is natural convection? What is the driving force for natural convection? (1 mark)

2. Draw boundary layer for natural convection over hot vertical plate, draw velocity and temperature profile. (2 marks)

3. Give the physical significance of the non-dimensional numbers encountered in this experiment. (2 m)

4. Why in the experiment heat transfer coefficient decrease and then increase? (1 m)

5. Radiation heat transfer should be considered while dealing with natural convection. TRUE or FALSE, Give reasons (1 m)

**EXP 12:**

1. Comment on the temperature gradient in the copper pipe and why is it better than steel? (1 m)

2. Arrange the performance of the three pipes in decreasing order, explain the same (2 marks).