13-2-2024

**Exp 3 and Exp 9:**

**Exp 3 :**

1. A circular fin of diameter D and a square fin of side s have the same surface area. Evaluate the ratio of their effectiveness. (2 m)

2. Which case (natural or forced) have higher effectiveness – why? (2 m)

**EXP 9:**

1.Draw the pool boiling curve and identify the different regimes. (2 m)

2. Why does the wire break in the experiment? explain physically. (1 m)

3.Will CHF change with (a) diameter of the wire, (b) subcooling (c) material of the wire – Give reasons (2 marks each)

4.Is CHF a unique number for a given material? Give reasons (1 m)