

**Dr. SSBUI CET, Panjab University, Chandigarh.**

**Subject: Heat Transfer**

**Class: ME Chem (2<sup>nd</sup> Sem)**

**M. Marks: 20**

**Duration: 1 hr**

*Important instructions:*

- *Attempt all questions.*
- *If you find the topic is lengthy, Write only necessary equations and their explanation; reflecting your understanding about the topic.*
- *Make your answers brief enough to fit in 10 marks; covering fundamental knowledge about the topic.*
- *Any similarities in **theory** with textbooks will directly lead to deduction of marks.*

Question1:

Write about analogy between momentum and heat transfer in turbulent flow over a flat surface.  
**(10)**

Question 2:

Write about forced convection in non-circular sections. Support your answer giving proper equations and some examples of non-circular sections.

**(10)**