

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

**Subject: FPED**

**Class: ME FT (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 or 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 maximum shear stress theory and maximum strain energy theory. Compare the results of these theories graphically and write the conclusion drawn from it.

**(10)**

Question 2: Explain adiabatic saturation process of air using a schematic diagram of psychometric chart. Give in brief, how will the DBT, WBT and RH change between start and end points of this process.

**(10)**