

B. Arch. Part **III**  
5<sup>th</sup> Semester Final Examination, 2011

Subject - Mechanical Services Code No. ME – 501/A Branch – B. Arch.

Time: 2 hours.

Full Marks: 35

- i) Answer any four questions
- ii) The questions are of equal value

1. Discuss the terms: Moist Air, Saturated Air, Degree of Saturation, Humidity, Absolute Humidity, Relative Humidity.
2. What is Dry Bulb and Wet Bulb temperature? Enumerate the term Dew Point temperature.
3. Describe with sketch Sling Psychrometer. State Dalton's Law of Partial Pressure.
4. Explain with sketch the ventilation system of a residential flat.
5. Discuss with sketch for the essential parts of passenger elevator in public building (wheelchair accessible) with load capacity of 800 Kg.
6. What are the maximum distances of a fire escape route in public buildings?