

Code No: C9104**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.TECH I SEMESTER EXAMINATIONS, APRIL/MAY 2012****VENTILATION SYSTEM
(HEATING VENTILATION AND AIR CONDITIONING)****Time: 3hours****Max. Marks: 60****Answer any five questions
All questions carry equal marks**

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- 1.a) What are the human comfort considerations for Ventilation? How to calculate Ventilation rate?
- b) Discuss Successive Ventilation in detail.
- 2.a) Differentiate between Duct Lining and duct filter.
- b) Discuss Noise attenuation in ducts.
- 3.a) What is the difference between grills and registers?
- b) What are the factors affecting grill performance?
- 4.a) Differentiate between a fan and a Blower.
- b) Mention the types of Fans. Explain any three types of Fans with sketches.
- 5.a) How to test the exhaust ventilation systems? Explain.
- b) How to determine the need for make up air? Explain.
6. Explain the following
 - a) Air handling and Ventilation.
 - b) Unit collectors.
- 7.a) How to design commercial molding? Explain.
- b) Discuss the term contaminated air and how to eliminate? Explain.
8. Write short notes on
 - a) Kochan Ventilation system
 - b) Fan Law's
 - c) Air distribution systems
