**R09**

**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

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