

Code No: C9104

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.Tech I Semester Examinations, April 2011

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 different types of ventilation systems? Explain in detail.
- b) What is the need of ventilation of building or residence etc? [12]
- 2.a) What is meant by Air ventilation system? Mention the types and discuss any two types with sketches.
- b) Mention the types of supply Air out lets and explain in detail. [12]
- 3.a) State Four laws and explain.
- b) How do you select four? Explain. [12]
- 4.a) Explain the term general exhaust. What are the different types of exhaust systems? Briefly explain.
- b) What are the factors to remove pollutants? Discuss in detail. [12]
- 5.a) Discuss briefly the air flow in a duct.
- b) What are the different types of ducts and explain in detail with sketches. [12]
- 6.a) Explain clearly the term commercial ventilation system.
- b) Discuss control of odor in ventilation system. [12]
- 7.a) Mention the types of Hood. Explain the types of Hood with the help of sketches.
- b) What are the factors to be considered to design hood? [12]
- 8.a) What are the factors taken to be considered for the ventilation of commercial building?
- b) Discuss residential ventilation system in detail. [12]
