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Name: .....

Reg.No. ....

FIFTH SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2010

CE 04 503 - BUILDING TECHNOLOGY II

(2004 ADMISSION)

Time: Three hours

Maximum : 100 Marks

Answer all questions.

- I
- (a) Define Sol-air temperature
  - (b) Explain Reverberation and Reverberation time briefly.
  - (c) State the precautions to be taken while concreting R.C.C. members.
  - (d) Write short notes on building failures due to fire.
  - (e) Write a note on different types of air-conditioning.
  - (f) Differentiate between acoustics and sound insulation.
  - (g) What are dumb waiters? Explain.
  - (h) Write short note on wind resistant design of structures

(8X5 = 40 marks)

- II
- (a) Define thermal comfort index. List the various thermal comfort indices. Explain any two in detail.

Or

- (b) Explain the following:-
  - (i) Air-conditioning systems
  - (ii) Heat exchange processes of buildings

- III
- (a) How do you compare the effectiveness of different acoustical materials? Write a short note on different types of sound absorbents.

Or

- (b) Discuss the general measures of fire safety recommended for buildings, especially important buildings and high rise buildings.

- IV
- (a) (i) Explain various systems of plumbing briefly.  
(ii) Write briefly on form work for R.C.C. construction

Or

- (b) Explain the steel framed building highlighting the structural systems, erection of steel work and detailing of connections.

- V
- (a) Differentiate between engineered building and non-engineered building from point of view of building failures.

Or

- (b) What are the principal causes of failure of RCC framed structures? Explain.

(4X15 = 60 marks)