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## INTERNATIONAL CENTRE FOR APPLIED SCIENCES

(Manipal University)

### III SEMESTER B.S. DEGREE EXAMINATION – NOV./ DEC.2016

SUBJECT: ENVIRONMENT TECHNOLOGY (AE 232)

(BRANCH: ARCHITECTURE & CIVIL)

Wednesday, 30 November 2016

**Time: 3 Hours**

**Max. Marks: 100**

- ✓ Answer ANY FIVE full Questions.
- ✓ Missing data, if any, may be suitably assumed
- ✓ Support your answers with sketches wherever required.

1. Define Micro climate and Macro climate. List all factors affecting Micro climate.  
Elaborate any three of the factors. (20 Marks)
2. Draw, label and explain the cooling cycle in Vapor Absorption System. (20 Marks)
3. Draw the schematic diagram and explain the water supply connection and its components. (20 Marks)
4. Explain the single stack and multi stack drainage system with diagrams. (20 Marks)
5. a. What are the guidelines for installation of electrical fittings?  
b. Explain the water treatment process involved in a water supply system (10 +10 Marks)
6. Explain in detail the elements in a building wiring system. Support with sketches. (20 Marks)
7. Draw and explain in detail the working of an escalator. Elaborate the following  
a. Handrail (7+7+6 Marks)  
b. Track  
c. Truss
8. Draw and explain (10+10 Marks)  
a. Dry Riser hydrant system  
b. Wet riser hydrant system

