

BACHELOR OF ARCHITECTURE (BARCH)

Term-End Examination

December, 2011

BAR-059 : ENERGY SYSTEMS AND HVAC

Time : 3 hours

Maximum Marks : 70

Note : Attempt any five questions. All questions carry equal marks. Draw sketches wherever necessary.

1. Explain with neat sketches the various types of wiring. 14
2. Explain with neat sketches : (*Any four* of the following) $3\frac{1}{2} \times 4 = 14$
 - (a) Stair case wiring
 - (b) Street lighting
 - (c) Fuse
 - (d) MCB
 - (e) Flood lighting
3. What do you mean by electric load in a building ? 14
How the load of a building be calculated ?
4.
 - (a) Write down the fire regulations. 7
 - (b) Discuss the various fire warning system 7
with their appropriate use.

5. (a) Discuss the various aspects to be kept in mind at the planning stage of building for fire escapes. 7
- (b) Discuss, with neat sketches, of the escape chute. 7
6. (a) Write down the various components of air conditioning systems. 7
- (b) Write down the various types of AC, systems and their appropriate use. 7
7. Discuss the working of the following with neat sketches. 7x2=14
- (a) Moving walkways
- (b) Escalators
8. Write short notes on *any two* : 7x2=14
- (a) Lay out of two way switches
- (b) Working of a passenger lift
- (c) Fire resistance
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