

00901

BACHELOR OF ARCHITECTURE (B ARCH)

Term-End Examination

December, 2013

**BAR-059 : ARCHITECTURAL SCIENCES &
SERVICES - IV (ENERGY SYSTEMS AND HVAC)**

Time : 3 hours

Maximum Marks : 70

*Note : Attempt **any five** questions. All questions carry **equal** marks. Draw sketeches to support your answers wherever necessary.*

1. Define the followings : (*Any four*) **3.5x4=14**
 - (a) Residual circuit breaker
 - (b) Earth fault
 - (c) Circuit and it's types
 - (d) Conduct wiring systems
 - (e) Variable air volume

2. Explain the various five extinguishing systems **14**
employed in a building.

3. Explain the various fire regulations in the design **14**
and planning of a building.

4. Discuss the applicability of various air **14**
conditioning systems and their co-ordination to
building systems.

5. Write short notes on : 3.5x4=14
- (a) Escalators
 - (b) Moving walkways
 - (c) Return travel time
 - (d) carrying capacity of a lift
6. Detail out the wiring diagram for a typical 14
distribution board scheme in a residential building
flat. Describe the various components listed
above.
7. Explain the following : 14
- (a) Layout of two way switches
 - (b) Earthing
 - (c) Working of a passenger lift
 - (d) Air handling unit
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