

Seat No. : \_\_\_\_\_

**15G-119**

**May-2015**

**B.Arch./ID/BCT. Sem.-IV**

**AR-405 : Building Services-I  
(New)**

**Time : 2 Hours]**

**[Max. Marks : 50**

- Instructions :** (1) **All** the questions are compulsory.  
(2) Draw necessary sketches wherever required.  
(3) Figures to the right indicate full marks.

1. Explain along with illustrations the different lighting schemes. **7**
  
2. Attempt any **three** of the following questions : **18**
  - (1) What is a fuse ? State the various properties of fuse material.
  - (2) Define the terms : (1) Resistance (2) Luminous flux (3) Fuse (4) Current (5) Luminance.
  - (3) Draw the symbols for (1) Diode (2) Wattmeter (3) Transformer (4) Lamp (5) Capacitor.
  - (4) What is earthing ? State the different types and explain any one in brief.
  
3. Classification of air conditioning system and explain any one in brief. **7**
  
4. Attempt any **three** of the following questions : **18**
  - (1) What is the process of Humidification, dehumidification ?
  - (2) Define psychometric terms : Dew Point, Humidity, Relative Humidity, Heat Load, and Temperature.
  - (3) State environmental factors which should be governed in Air conditioning for human comfort.
  - (4) Which are the equipments used in air conditioning systems ?

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