

**SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA**  
**B.Arch, II YEAR IV SEMESTER EXAMINATION (REGULAR), MAY-2015**  
**BUILDING SCIENCE AND SERVICES – ENERGY SYSTEMS**  
**AND INSTALLATIONS (BS-4)**

**Maximum Marks – 50**

**Time – 2.00 Hours**

- a) Answer any **Three** questions*  
*b) Question No. 5 is compulsory.*

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- Q1. What is fossil fuel? Explain different types of fossil fuels (15)  
with their advantages and disadvantages.
- Q2. Explain electricity distribution in a residence (individual (15)  
building) through a flow chart.
- Q3. Explain single phase and triple phase electricity and its (15)  
application in a Residential Building.
- Q4. What is earthing? Explain different types of earthing (15)  
systems.
- Q5. Write short notes on *any four* of the following. (4 x 5=20)
- a) Circuit breaker
  - b) Electric load
  - c) Five types of electric cables with section.
  - d) Load shedding
  - e) What is electricity? What is the voltage and frequency  
of electricity supplied in India?
  - f) Wind energy at building level.