

SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA

SEMESTER END EXAMINATIONS (REGULAR), MAY-2016

B.ARCH, II YEAR IV SEMESTER

BUILDING SCIENCE AND SERVICES

(Energy Systems and Installations) (BS 4)

Time – 2.00 Hours

Maximum Marks - 50

-
- a) Answer any Four out of 1 to 4 questions.
b) Question No.5 is compulsory and answer any four out of six sub-questions.
c) Draw neat sketches to explain the concept wherever necessary.
-

- Q1. Write short notes on natural gas as a source of energy. (5+10 = 15M)
Explain in detail on wind energy as source of renewable energy and it's applicability in India?
- Q2. a) Explain the concept of resistance & frequency in an electric circuit. (2x2.5 =5M)
b) What is the difference between single phase and triple phase connection. (2x5= 10M)
- Q3. a) Draw the symbol for following electrical installation (5x1= 5M)
i) Socket outlet – 16A
ii) Lamp mounted on wall
iii) Exhaust fan
iv) One way single pole switch
v) Fluorescent lamp
b) Explain with neat sketches power generation, power transmission and power distribution (power plant to individual plot) (10M)
- Q4. Explain briefly any five safety devices/ equipments used in electrical distribution (5x3 = 15M)
- Q5. Write short notes on (4x5 = 20M)
i) Capacitor
ii) 5 types of wire
iii) Watt Hour meter
iv) SWG
v) 5 types of earthing electrodes
vi) Concealed conduit wiring