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B.TECH.

THEORY EXAMINATION (SEM–VIII) 2016-17

SCADA & ENERGY MANAGEMENT SYSTEM

Time : 3 Hours ***Max. Marks : 100***

Note : *Be precise in your answer. In case of numerical problem assume data wherever not provided.*

SECTION – A

1. Explain the following: **10 x 2 = 20**

(a) What is data acquisition?

(b) Define RTUs.

(c) Define commonly acquired data.

(d) What is feedback loops?

(e) Define VDUs .

(f) What are application of SCADA ?

(g) Define event loggers

(h) What is power line carrier.?

(i) Write the name of real time operation system.

(j) What is EMS.?

SECTION – B

2. Attempt any five of the following questions: **5 x 10 = 50**

(a) Explain general power system hierarchical Structure in detail.

(b) Discuss fiber optical channels advantage and disadvantages.

(c) Explain majored values and energy values of Control Functions.

(d) What are applications in process in industry - valve, opening, closing in control function?

(e) Explain Machine Communication in details

(f) Discuss printing facilities in details.

(g) Explain SCADA system structure.

(h) Discuss modularization of software programming languages.

SECTION – C

Attempt any two of the following questions: **2 x 15 = 30**

3 Explain of the methods of data acquisition systems,

4 Explain redundant dual processor and multicontrol centers.

5 Explain various communication channels with example

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