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B.TECH.

THEORY EXAMINATION (SEM-VIII) 2016-17 SCADA

Time: 3 Hours Max. Marks: 100

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

SECTION - A

Explain the following:

 $10 \times 2 = 20$

- (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.?
- Write the name of real time operation system.
- (j) What is EMS.?

SECTION - B

Attempt any five of the following questions:

 $5 \times 10 = 50$

- (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:

 $2 \times 15 = 30$

- 3 Explain of the methods of data acquisition systems,
- 4 Explain redundant dual processor and multicontrol centers.
- 5 Explain various communication channels with example

