EX-702

B. E. (Seventh Semester) EXAMINATION, Dec., 2011

(Electrical & Electronics Engg. Branch)

COMPUTER APPLICATION TO POWER SYSTEM

Time: Three Hours Maximum Marks: 100 Minimum Pass Marks: 35

Note_f: Attempt any five questions. All questions carry equal marks

- 1. (a) Write a brief note on line loadability.
- (b) What do you understand by capability curves of alternator?
- 2. (a) How do you control the load bus voltage using reactive power control devices?
- (b) Write short notes about the following:
- (i) SVC
- (ii) SVS
- 3. (a) What do you understand by regulated shunt compensation?
- (b) Distinguish between series and shunt compensation.
- 4. (a) Explain general sensitivity relations,
 - (b) Write short notes about the following:
- (i) Generation shift distribution factor
- (ii) Line outage distribution factor
- 5. (a) What do you understand ,by power system security?
- (b) Describe contingency analysis.
- 6. (a) Discuss the voltage and angle stability.
- (b) Explain the PV curve for voltage stability assessment.
- 7. (a) How does the series compensation affect the voltage stability?
- (b) Explain the effect of load models on voltage stability.
- 8. Write short notes about the following:
- (i) Pre and Post Contingency
- (ii) Corrective load re-scheduling.
- (iii) Security level