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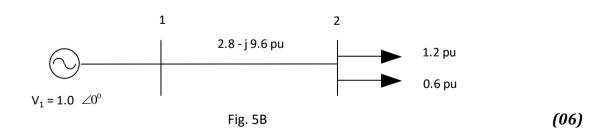
& reactive power generation.

I SEMESTER M.TECH (ENERGY SYSTEMS & MANAGEMENT) END SEMESTER EXAMINATIONS, NOVEMBER 2017

SUBJECT: ADVANCED ENERGY MANAGEMENT [ELE 5103]

REVISED CREDIT SYSTEM

Date: 23 November 2017 Time: 3 Hours Max. Marks: 50 **Instructions to Candidates:** ❖ Answer **ALL** the questions. Missing data may be suitably assumed. 1A. What is energy auditing? How is it different from energy accounting? (05)1B. Give an account of the salient features of the Electricity Act 2003. (05)2A. Enumerate the factors on which electricity tariffs depend on. (05)2B. How do you evaluate a renewable energy project/proposal? (05)3A. What are the objectives of Energy Management System? (05)3B. With block diagram explain various states of power systems (05)4A. Explain economic load dispatch emphasizing the theory behind it, with examples. (05)(05)4B. What are the objectives of SCADA? 5A. (04)Explain the architecture for power system automation. 5B. For the power system shown in Fig. 5B, find the voltage at bus 2 at the end of Four iterations using Gauss-Siedal method. Also find the line losses and the slack bus real



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