

Cork Institute of Technology

Bachelor of Science (Honours) in Electrical Power Systems – Award

(Bachelor of Science in Electrical Power Systems – Award)

(NFQ – Level 8)

Summer 2005

Electrical Energy System

(Time: 3 Hours)

Instructions

Answer any FIVE questions.

All questions carry equal marks.

Examiners: Mr. M. Ahern

Mr. K. O'Connell

Mr. Srđo Boljević

- Q1. An unbalanced delta-connected load is connected across a balanced three-phase 100V, a.c. supply, the loads are:

$$Z_{ac} = (6 + j8) \Omega$$

$$Z_{cb} = 20 \Omega$$

$$Z_{ba} = (4 - j3) \Omega$$

Calculate:

- (i) phase currents (6 marks)
- (ii) line currents (6 marks)
- (iii) the total active power consumed by the load (8 marks)

(Note: The phase sequence is ACB with phase voltages placed 120°)

- Q2. (a) Discuss the benefits of using per-unit method of power system analysis over the use of actual amperes, volts and ohms method. (6 Marks)

- (b) An alternator supplies a load through a feeder whose impedance is $Z_{fb} = (1 + j2) \Omega$. The load impedance is $Z_L = (8 + j6) \Omega$. The voltage across the load is 120V. Find the real power and reactive power supplied by the alternator using per-unit methods. (Choose $S_{base} = 1500\text{VA}$ and $V_{base} = 120\text{V}$) (14 Marks)

- Q3. A 60 kVA, 220 V, 50 Hz, single-phase alternator has effective resistance of 0.16Ω and an armature leakage reactance of 0.07Ω . Find the voltage induced in the armature when the alternator is delivering rated current at a load p.f. of:

- (i) unity (6 marks)
- (ii) 0.7 lagging (7 marks)
- (iii) 0.7 leading (7 marks)

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