

# 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  $120^\circ$ )

- 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  $0.16 \Omega$  and an armature leakage reactance of  $0.07 \Omega$ . 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)

# Phase Electrical Exam Papers

**Christian G. Meyer**



## **Phase Electrical Exam Papers:**

**North Dakota 2020 Master Electrician Exam Questions and Study Guide** Ray Holder, 2020-08-09 The North Dakota 2020 Master study guide will help you prepare for the exam by providing 12 practice open book exams and 2 Final Closed Book Exams Includes North Dakota License Forms and Sample Applications This book also covers most topics that are included on all Master Electricians exams such as conductor sizing and protection motors transformers voltage drop over current protection and residential and commercial load calculations The text contains the most widely used electrical calculations and formulas the reader needs to pass the Master electrical competency exam About the Author Ray Holder has worked in the electrical industry for more than 40 years as an apprentice journeyman master field engineer estimator business manager contractor inspector and instructor He is a graduate of Texas State University and holds a Bachelor of Science Degree in Occupational Education A certified instructor of electrical trades he has been awarded a lifetime teaching certificate from the Texas Education Agency in the field of Vocational Education Mr Holder has taught thousands of students at Austin Community College Austin Texas Odessa College at Odessa Texas Technical Vocational Institute of Albuquerque New Mexico Howard College at San Angelo Texas and in the public school systems in Fort Worth and San Antonio Texas He is currently Director of Education for Electrical Seminars Inc of San Marcos Texas Mr Holder is an active member of the National Fire Protection Association International Association of Electrical Inspectors and the International Brotherhood of Electrical Workers

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