

Cork Institute of Technology

Bachelor of Engineering in Building Services Engineering – Stage 2

(EBSEN_7_Y2)

Autumn 2008

Electrotechnology

(Time: 3 Hours)

Answer THREE question from Section A
and TWO question from Section B
Use separate answer book for each Section
All question carry equal marks

Examiner: Mr. S. Boljevic
Dr. M. Smyth
Mr. D. Leonard

Section A

- Q1. A series circuit consists of resistance $10\ \Omega$, inductance 0.1H and capacitor of capacitance of $150\mu\text{F}$ is connected across a 200 V , 50 Hz supply. (20 Marks)
Draw the circuit and calculate:
- (a) Importance of the circuit.
 - (b) The current through the circuit.
 - (c) Power factor.
 - (d) Voltage across the coil.
 - (e) Voltage across the capacitor.
 - (f) Draw the phasor diagram showing voltage across resistor and capacitor.
- Q2. A coil of resistance $100\ \Omega$ and inductance 0.15 H is connected to a 250 V , 50 Hz supply. (20 Marks)
Calculate:
- (a) Capacitance of the capacitor to be connected in parallel with the coil so that overall p.f is unity.
 - (b) Total active power consumed often capacitor is connected.
 - (c) Explain what is meant by power factor. Support your explanation with practice example.

Exam Paper Electrotechnology N3 2014

Pieter Johannes Andries Bakker

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Reviewing **Exam Paper Electrotechnology N3 2014**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Exam Paper Electrotechnology N3 2014**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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