### Cork Institute of Technology

Bachelor of Engineering in Building Services Engineering - Stage 2

(EBSEN\_7\_Y2)

Summer 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) A coil of insulated wire of resistance 8 Ω and inductance 0.03 H is connected to an a.c. supply at 240 V 50Hz. Draw the circuit and calculate:
  - (i) the current through the coil
  - (iii) power factor
  - (iii) the power consumed by the coil

(6 marks)

(b) Calculate the value of capacitance which when connected in series with the above coil, causes no change in the values of the current and power taken from the supply.

(6 marks):

- (c) A coil of resistance 100 Ω and inductance 100 µH is connected in series with a 100 pF capacitor. The circuit is connected to a 10 V variable frequency supply. Draw the circuit and calculate:
  - (i) the resonant frequency
  - (ii) current at resonance
  - (iii) voltage across L and C at resonance
  - (iv) Q factor of the circuit

(8 marks)

# **Eletrotechnology N3 Past Papers**

**SA Chuturgoon** 

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<u>Publications of the National Institute of Standards and Technology ... Catalog</u> National Institute of Standards and Technology (U.S.), National Institute of Standards and Technology (U.S.). Information Resources and Services Division, 1994

China World Bank,1993 The Republic of Korea's industrial policy has directed that nation's economy through nearly three decades of spectacular growth But the authors of this paper maintain that this policy is showing signs of being outmoded The time has come the authors argue for the Korean government to stop managing the economy's structural development and to redefine the responsibilities of business and government Under this proposed compact the allocation of resources would shift from the government to the private industrial and financial sectors. The transformation of the government bureaucracy from an ad hoc policy role to one of a transparent and predictable regulator is a key to the success of this undertaking. These new directions would present the government with enormous challenges Greater competitive discipline and regulatory oversight would be required. While dealing with the complexities of the transition the government would have to maintain macroeconomic stability and the momentum of savings and investment For comparison the study examines the industrial economies of France Germany Japan and the United States which underwent similar shifts

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