



UNIVERSITY OF GHANA

(All rights reserved)

B.SC COMPUTER SCIENCE/INFORMATION TECHNOLOGY, SECOND S

EMESTER EXAMINATIONS: 2015/2016

CSIT 304: IT IN THE GLOBAL ECONOMY (3 CREDITS)

INSTRUCTION:

Answer any four (4) questions. All questions carry equal marks. Give detail explanations and clarifications where necessary.

TIME ALLOWED:

THREE (3) HOURS

QUESTION 1.

I. Offer thoughtful comments on how the ICT revolution is changing the nature of societies worldwide economically. **[5marks]**

II. List three international organizations that are concerned with internet privacy, crime, or other ICT ethics issues. What steps are these organizations taking to control these issues?

[3marks]

I. Explain the control, if any, that the G8 Countries have over the internet and cell phone industries, if any. Consider specifically the ICANN, W3C, and IAB. What implications does this

control have for developing nations, like Ghana?

[3marks]

I. For the purpose of Digital Privacy Protections, what should an organizations do to Protect your Data, and what can you do to protect your Personally Identifiable Information? Give two measures each. **[2marks]**

II. What are some of the effects of Cryptography regulations on global Economic activities? **[2marks]**

QUESTION 2.

I. The main objectives of the study of Globalization of economics can be summarized into the phrase “think globally and act locally”. Explain how Information Technology can be used to facilitate these objectives. **[4marks]**

I. The historical perspective on Economic Change is “From Economics to Globalization of Economies .Why? **[3marks]**

I. The Globalization of Economics and IT are “two sites of One Process” Explain why? **[2marks]**

I. Briefly explain the following IT Privacy terms: Script kiddie, Hacker, Cracker and Morality. **[2marks]**

I. Advance an argument in support of copyright in the wake of the revolution in digital technology and electronic transmission. Give 3-approaches for the redesigning of copyright regulations globally. **[4marks]**

QUESTION 3.

I. Describe how Information technologies serve as a special feature of globalization in present days **[4marks]**

II. Globalization is a “compression of time and space”. Explain how Media and communication, Technologies and Economics contribute to globalization.

[3marks]

I. Why have all countries not benefited to the same extent from globalization?

[3marks]

II. Explain the main components of the WTO information technology agreement?

III. Discuss the relevance of encryption to the digital economy. **[2marks]**

I. Discuss the Wassenaar Arrangement for the export and import of dual-use technologies.

[3marks]

QUESTION 4.

I. Productivity is the relationship between the outputs generated from a system and the inputs that are used to create those outputs. Mathematically, $P=O/I$.

Therefore, Productivity Improvement (PI) is the result of managing and intervening in transformation or work processes. Mathematically deduce and explain four relations in which PI will occur. **[4marks]**

II. b. It can be said that the general public has not realized the critical importance of ethics as applied to IT as important technical decisions are often left to technical experts. Explain any two ethical decisions that general business managers must assume greater responsibility for. **[2marks]**

I. Explain the concept and the four dimensions of the OHMAE'S "Invincible world" **[2marks]**

II. Outline a Scenario that depicts how IT is Facilitating the work of NGOs and consortia in the global world. **[3marks]**

III. In what ways is Globalization and the Internet accelerating terrorist activities? **[2marks]**

IV. For terrorists, the Internet is a computer-mediated communication (CMC) platform: Explain how this works to their advantages **[2marks]**

QUESTION 5.

I. Ricardian Model of Production and Trade is based on technological differences across countries. Explain the Concept of Comparative Advantage **[3marks]**

I. Give 3-myths that constitute misconceptions about Comparative Advantage.

[3mark]

I. Explain the relationship between trade and IT infrastructure **[2marks]**

I. Corresponding to the four periods of IT evolution of (Moschella, 1997) are four operating laws? What are these laws? Discuss those. **[2marks]**

II. Justify why the World's poor have more to gain in relative terms from technology than the affluent nations of the world. Write under the headings; Economic Development, Social Development and Personal Development

[3marks]

I. Barriers to Entry or Digital Divide Issues include; Connectivity Divide, Computer Access Divide, Digital Literacy Divide and Content Divide. Justify any two of the above.

[2marks]

QUESTION 6.

I. IT workers are considered part of the professional services industry. What are the forces that are changing IT professional services? Discuss any three

[3marks]

II. Explain the terms Negligence and Duty of care in relation to IT Professional Malpractice

[2marks]

I. In the Global economy, what sells is speed and instant gratification .What is the role of IT in Knowledge Management in the Knowledge economy?

[4marks]

I. Discuss how automation and cybernation is being applied in the Technological and employment trends

[3marks]

II. Explain any 3-trends contributing to the risk of using information technology unethically in the global economy.

[3marks]

END OF PAPER

