



FACULTY OF MANAGEMENT

DEPARTMENT

INFORMATION & KNOWLEDGE MANAGEMENT

MODULE INTERNET INFRASTRUCTURES

CODE ILK2307/IMA8X04

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DURATION 3 HOURS

TOTAL MARKS 100

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NUMBER OF PAGES 2 PAGES

INSTRUCTIONS TO CANDIDATES:

- ANSWER **ALL** THE QUESTIONS.

SECTION A

QUESTION 1

The Internet as an infrastructure and Web environment make use of multiple technologies and protocols. What do the following acronyms stand for?

- 1.1 IoT
- 1.2 SMTP
- 1.3 VPN
- 1.4 IPv6
- 1.5 AMI
- 1.6 VOIP
- 1.7 WiFi
- 1.8 SSL
- 1.9 TCP/IP
- 1.10 DNS

[10]

... Cont.

QUESTION 2

- 2.1 Give a definition of and explain the difference between PAN, LAN, MAN, WAN and GAN. (10)
- 2.2 Discuss the difference between Internet (Upper case I) and internet (Lower case i). (5)

[15]**QUESTION 3**

After the completion of the Opinion Papers (OPs) and Research Reports (RRs) for this module, apply your mind and give your opinion on how do you see Internet technologies developing in the next decade in terms of the following:

- VoIP
- M-Commerce
- Ambient intelligence
- Cloud computing
- Inter-planetary networks

[25]**QUESTION 4**

As an Information Management consultant you have been contracted by a large multi-national company looking at expanding their business into the Mobile Internet environment. They have requested that you prepare a report reflecting on how the mobile Internet is impacting on our daily lives. In the answer for this question, apply what you have learned in this module and reflect on at least eight (8) areas where the mobile Internet has impacted on.

[25]**QUESTION 5**

The Internet of Things (IoT) is an environment in which objects and people are provided with unique identifiers and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction. Apply what you have learned in this module and give your opinion on how Internet technologies can be integrated into a household environment, with specific reference to entertainment (e.g. TV and video), and secondly motor vehicle security.

[25]**Total: [100]**

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