FACULTY OF MANAGEMENT AND ADMINISTRATION

HIT 100 INTRODUCTION TO COMPUTERS

Date: **November 2014**

Time: **3 hours**

Instructions to candidates:

- This paper consists of **seven (7)** questions.
- **Answer any five (5)** questions.
- Each whole question carries **20** marks.
- Where part marks are allocated to subsections of a question, the marks are enclosed in brackets [].
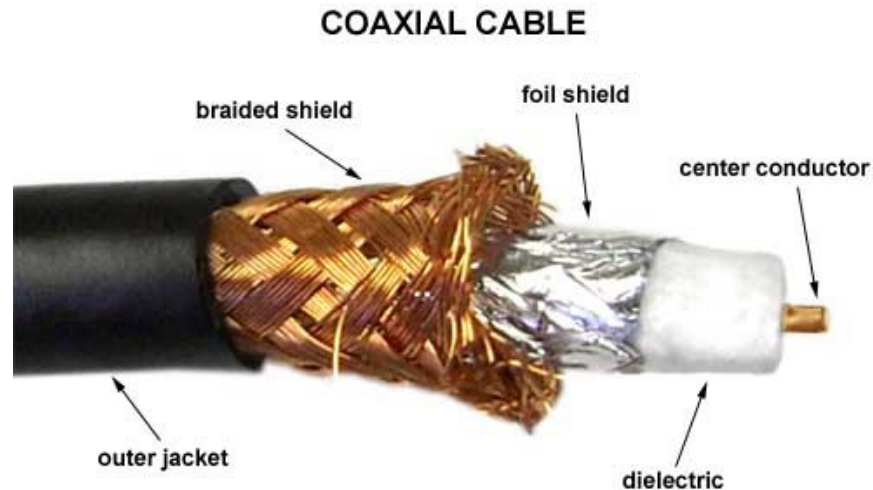- Start each question on a fresh page

Question 1

a) Define the term **"operating system."** **[4]**

b) Explain the function of the boot strap program. **[4]**

c) Explain the difference between blogs and wikis. **[4]**

d) Explain the acronym **"BYOD."** **[4]**

e) Explain what you understand by the term *cloud computing*. **[4]**

Question 2

a) State four (4) advantages of cloud computing. **[4]**

b) Network security is an integral part of computer networks. There are several different types of threats that can compromise networks. Explain each of the following classes of threats:
   i)   Virus
   ii)   Worm
   iii) Trojan horse
   iv)   Adware
   v)   Malware
   vi)   Identity theft **[2*6]**

c) Define bandwidth. **[4]**

Question 3

a) How does UTP differ from STP? **[4]**

b) Below is a diagram showing a cross section of a coaxial cable. Describe the purpose of each labelled component in detail. **[10]**

COAXIAL CABLE

Fig 3.

c) Wireless media carry electromagnetic signals that represent the binary digits of data communications using radio or microwave frequencies. As a networking medium, wireless is not restricted to conductors or pathways, as are copper and fiber media. Wireless media provides the greatest mobility options of all media. As well, the number of wireless enabled devices is continuously increasing. However, wireless does have some areas of concern. State and explain any 3 areas of concern. **[6]**

Question 4

a) Distinguish between *internet* and *www*. **[4]**

b) Define the following acronyms:
  i)   FTP
  ii)   HTTP
  iii)   URL
         [2*3]

c) Describe the purpose of a hyperlink. **[2]**

d) Explain the relationship between a web browser and a search engine. **[4]**

e) Explain the purpose of cookies in relation to websites. **[4]**

Question 5

a) State and explain any 3 factors that can impact a computer's speed.
[6]

b) State the 3 components that make up a CPU.
[3]

c) Distinguish between RAM and ROM.
[4]

d) State 3 output devices you know.
[3]

e) Distinguish between operating system software and application software.
[4]

Question 6

a) For the following classes of application software, state its function and give 2 examples for each:
    i)   Word processor
    ii)   Database
    iii)   Web browser
    iv)   Email client
    v)   Spreadsheet
     [3*5]
b) State the advantage of having a print server in any organization.
[5]

Question 7

a) State 6 input devices you know.
[6]

b) Describe the difference between LAN, WAN and MAN.
[6]

c) Describe what you understand by the term e-commerce.
[2]

d) Distinguish between intranet, extranet and internet.
[6]

************************END OF EXAMINATION************************