

WOMEN'S UNIVERSITY IN AFRICA



Addressing gender disparity and fostering equity in University Education

FACULTY OF MANAGEMENT AND ENTREPRENEURIAL SCIENCES

BSc HONOURS DEGREE IN INFORMATION SYSTEMS

MAIN PAPER

IS112: INTERNET FUNDAMENTALS

INTAKE 27: FIRST YEAR FIRST SEMESTER

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

Answer any **four** questions.

Question 1

- a) Identify methods of securing a website so that users can enter sensitive information [4]
- b) Explore the following Internet protocols, stating their purpose
- i. IP; [3]
 - ii. FTP; [3]
 - iii. SMTP; [3]
 - iv. UDP; and [3]
 - v. POP3. [3]
- c) Explain the types of websites using relevant examples [6]

Question 2

With the aid of diagrams, differentiate between the TCP/IP model and the OSI model using examples where necessary. [25]

Question 3

- a) Define the following terms as they are used in internet ;
- i. HTML; [2]
 - ii. (X)HTML; [2]
 - iii. CSS; [2]
 - iv. JavaScript; [2]
 - v. AJAX; [2]
 - vi. PHP; and [2]
 - vii. ASP/ASPX. [2]
- b) Compare and contrast IPv4 Addressing and IPv6 Addressing. [6]
- c) Outline the steps taken when creating a Podcast [5]

Question 4

- a) Describe the difference between HTTP and HTTPS [5]
- b) Discuss the different measures used to safeguard against Internet attacks [7]
- c) Explain the methods that one needs to employ to increase healthy use of the Internet [13]

Question 5

- a) Define the term Internet [2]
- b) State and explain the various uses of the internet in today's world. [20]
- c) Name three internet services including their port numbers. [3]

Question 6

- a) Explain the service models within Cloud Computing [10]
- b) Discuss the role of POTRAZ, explaining the various legal bills that have been introduced in Zimbabwe to date. [15]

END