

EASTERN UNIVERSITY, SRI LANKA

FACULTY OF SCIENCE

First Year Second Semester Examination in Science -2021/2022

(Sep/Oct, 2024)

EN1052 - INTRODUCTION TO COMPUTING - II

(THEORY)

Answer All questions

Time: 1 hour

Q1)

- a) Explain the uses of Hubs in computer networking. [10 marks]
- b) Define Intranet and Extranet, providing suitable examples. [10 marks]
- c) Briefly explain the Simplex mode, Half-Duplex mode and Full-Duplex mode of communication. [15 marks]
- d) What is a URL? Explain the parts of a URL using a suitable example. [15 marks]
- e) What is a web browser? List five uses of web browsers. [15 marks]
- f) What is an IP address? Explain the primary difference between IPv4 and IPv6. [15 marks]
- g) List five advantages of using email over the traditional postal system. [20 marks]

Q2)

- a) List four advantages of using electronic databases in organizations. [10 marks]
- b) What is data integrity? Explain why it is important. [10 marks]
- c) Define field, records, table and database. Explain the relationship among them. [15 marks]
- d) Explain the use of HTML, CSS & JavaScript in web development. [15 marks]
- e) What is a Wiki? List four uses of a Wiki in an organization. [15 marks]
- f) Write the full forms of **any five** of the following abbreviations related to information technology. [15 marks]
  - i) UTP
  - ii) W3C
  - iii) CCTV
  - iv) HTML
  - v) ICANN
  - vi) WISP
  - vii) RFID
  - viii) MAN
  - ix) DSL
  - x) HTTPS
- g) Write a short essay on Artificial Intelligence (AI), explaining its advantages and disadvantages. [20 marks]