



EASTERN UNIVERSITY, SRI LANKA
DEPARTMENT OF MATHEMATICS
FIRST EXAMINATION IN SCIENCE - 2016/2017
FIRST SEMESTER (AUGUST/ SEPTEMBER, 2018)

EN1042 – INTRODUCTION TO COMPUTING- I
(THEORY)

ANSWER ALL QUESTIONS

TIME: 1 HOUR

Q1)

- a) What is Computer? List any five characteristics of a computer. [15 Marks]
- b) Explain Analog, Digital and Hybrid Computers. [15 Marks]
- c) Define Input, Processing and Output in terms of Information Technology. [15 Marks]
- d) List five input devices, output devices and storage devices. [15 Marks]
- e) What is an Operating System? Give five example for operating systems. [15 Marks]
- f) Differentiate the primary memory and secondary memory in terms of computers. [10 Marks]
- g) Discuss the use of Information and Communication Technology (ICT) in the field of Education. [15 Marks]

Q2)

- a) Discuss the advantages and disadvantages of using social media sites and applications. [15 Mar]
- b) Discuss the differences between data and information. [10 Mar]
- c) What is meant by UNICODE? Explain the use of UNICODE in computers. [15 Mar]
- d) Convert the following numbers into Binary numbers:
- i) $(1020.125)_{10}$
 - ii) $(AB.1D)_{16}$ [20 Mar]
- e) Convert the following numbers into Hexadecimal numbers:
- i) $(0.53125)_{10}$
 - ii) $(110011001010.1001001)_2$ [20 Mar]
- f) Draw the truth table to find the outputs **S** and **C** for the inputs **X**, **Y**, **Z** for the logic circuit given below: [20 Mar]

