

EASTERN UNIVERSITY SRI LANKA
FACULTY OF COMMERCE AND MANAGEMENT
FIRST EXAMINATION IN BBA/BCOM - 2015/ 2016
FIRST SEMESTER (July/August - 2017)

12 FEB 2018

MGT 1012 – INTRODUCTION TO INFORMATION TECHNOLOGY

Answer all questions.

Time: Two hours

Q1.

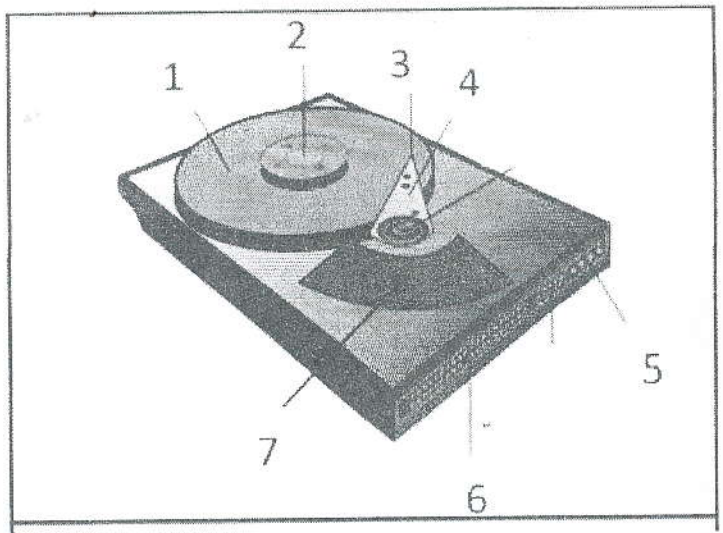
- A. What do you understand by the term **System**? Give four examples for s system.
- B. Briefly describe the components of a system?
- C. Define the following terms;
 - a. Data;
 - b. Information;
 - c. Information Communication Technology (ICT).
- D. What is computer? Draw the block diagram of a computer.
- E. Computer can be classified into two broad categories. Briefly explain them.
- F. Write down the demerits of ICT.

Q2.

- A. Compare and contrast the 3rd and 4th generation of Computers.
- B. Briefly describe the main features of the 5th generation of computers.
- C. Briefly describe the five characteristics of the Computer.
- D. Define the term **Software**. The computer software is classified into two broad categories, explain them with suitable examples.
- E. Write down the abbreviation of the following devices and their functions.
 - a. OMR;
 - b. OCR;
 - c. MICR;
 - d. CCTV.

Q3

- A. Briefly describe the function of the *cache memory* with suitable diagram.
- B. Following figure describe the components of the hard disk. write down the name of the components from 1 to 7 and their function respectively.



- C. Secondary memory can be classified into three categories. Explain each with suitable examples.
- D. Explain three categories of the wired transmission media.
- E. Explain the following terms;
- Wide Area Network (WAN)
 - Bridge
 - Switch
 - Gateway

Q4.

- A. Convert the following into Binary:
- $(428)_{10}$
 - $(278.45)_{10}$
 - $(0.176)_{10}$
- B. Convert the following into Octal.
- $(1.10101)_{10}$
 - $(0.077)_{10}$
 - $(C8D)_{16}$
- C. Convert the following into Hex:
- $(828)_{10}$
 - $(127)_8$
 - $(0.852)_{10}$
- D. Prove the De Morgan's laws using truth table
- E. Simplify the following Boolean expressions using appropriate Boolean rules.
- $(A + C)(AD + A\bar{D}) + AC + C$
 - $(\bar{A})(A + B) + (B + A)(A + \bar{B})$
- F. Draw the circuit diagram to implement the expression

$$X = \bar{A}BC(\overline{A + D})$$