BBA 1205–Information and Communication Technology I

BACHELOR OF BUSINESS ADMINISTRATION DEGREE 1000LEVEL

SECOND SEMESTER END EXAMINATION– JUNE/JULY 2015

Two Hours

Instructions

➡ *Answer all questions.*

➡ *Calculators are **not** allowed.*

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[1] a). i. Many banks allow customers to manage their accounts on-line. Briefly discuss advantages and disadvantages of such online accounts management.

ii. Write two banking services that can be offered in such online banking.

b). i. Give one purpose of using Random Access Memory (RAM) in a computer.

ii. Give two reasons as to why secondary storage is still needed although the main memory capacity of modern computer is large enough to hold significant amount of data.

c). i. List two advantages and one disadvantage of using e-mail.

ii. What is a Web Browser? List two commonly used web browsers.

iii. What is the purpose of Internet Search Engines?

[12.5 Marks]

[2] a). i. Briefly explain following network communication standards.

1. Wi-Fi
2. Bluetooth

ii. Name three main computer network devices.

b). Briefly explain following network topologies. Give one disadvantage of each topology.

i. Star
ii. Ring
iii. Bus

c). i. Give two main differences between ADSL and Dialup lines?

ii. Name three types of wireless transmission media.

[12.5 Marks]

[3]   a).   Briefly explain following topics.

     i.   Single tasking and Multi tasking operating systems

     ii. Single user and Multiuser operating systems

     iii. Real time and Distributed Systems

    b).   i.   Give three examples for server operating systems.

     ii. Give three examples for embedded operating systems.

     iii. Give two commonly used utility programs in Windows operating system.

    c).   i.   List the main components of the Central Processing Unit (CPU) of a computer. Briefly explain one of them.

     ii. Name three ports that can be seen in a typical computer. For each port you written, give an example of a device that can be connected to the computer through it.

[12.5 Marks]

[4]   a).   Convert following binary numbers to their decimal, octal and hexadecimal equivalents.

     i. $1011\ 0010_2$

     ii. $11\ 1110\ 1101_2$

    b).   **X** and **Y** are two digital signals with binary values **110100** and **100111** respectively. Find the digital value of the followings.

     i. $X \cdot \overline{Y}$

     ii. $\overline{X} + \overline{Y}$

    c).   Draw a logic circuit for the Boolean expression $Q = A \cdot \overline{B} + B \cdot C$. Construct its truth table.

[12.5 Marks]

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