THE UNIVERSITY OF THE WEST INDIES

Semester l ⊠   Semester II ☐   Supplemental/Summer School ☐

Examinations of December ⊠ /April/May ☐ /July ☐ 2011

Originating Campus: **Cave Hill** ☐ **Mona** ⊠ **St. Augustine** ☐

Mode: **On Campus** ⊠ **By Distance** ☐

Course Code and Title: LIBS6501 - INFORMATION TECHNOLOGY I

Date: December 9, 2011   Time: 2:00 p.m. – 5:00 p.m.

Duration: **3 HOURS**   **Paper No:**

Materials required:

Answer booklet: Normal ☐   Special ☐   Not required ⊠

Calculator: Programmable ☐   Non Programmable ☐
(where applicable)

Multiple Choice answer sheets: numerical ☐ alphabetical ☐ 1-20 ☐ 1-100 ☐
Auxiliary/Other material(s) – Please specify:

Candidates are permitted to bring the following items to their desks:

Instructions to Candidates: This paper has 8 pages & 31 questions.

YOU ARE REQUIRED TO ANSWER ALL QUESTIONS.

PLEASE WRITE ANSWERS IN THE SPACES PROVIDED ON THE QUESTION PAPER.

Candidates are reminded that the examiners shall take into account the proper use of the English Language in determining the mark for each response.

The University of the West Indies   Course Code   20…./…./…

DO NOT WRITE OR TYPE ON THE BACK OF THIS SHEET: USE ONE SIDE ONLY
INSTRUCTIONS: Each page must be signed by the First and Second Examiners, and where applicable the University and External Examiners. Completed forms should be handed to the Senior/Assistant Registrar (Examinations). Where applicable, the EXTERNAL EXAMINER is required to sign the question paper and return it with comments, if any, (on a separate sheet), to the Senior/Assistant Registrar (Examinations).

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First Examiner   University Examiner (where applicable)

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Second Examiner   External Examiner (where applicable)

Date: 20…../…../……   Date: 20…../…../……

ID # _____

1. State in full the abbreviation IPv6 and explain its main purpose. (2 marks)

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2. Identify **TWO (2)** important characteristics of a client/server network. (2 marks)

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3. State **TWO (2)** features which you would need to consider when evaluating the performance of a CPU. (2 marks)

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4. Identify **FOUR (4)** main components of a network. (4 marks)

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5. Identify **TWO (2)** options in the broadband range, which a Caribbean library has for connecting to the Internet. (2 marks)

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6. Define an operating system and briefly explain its role in the functioning of a computer
system. (3 marks)

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7. Complete the following sentence by listing **FIVE (5)** activities of a database management
system. A database management system is a software package which facilitates: (5 marks)

a)_____

b)_____c)_____

_____d)_____

_____e)_____

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8. Give a definition of each of the following: FIELD, FILE, RECORD in a database: (3 marks)

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9. Give a definition of a primary key in a database and give **ONE (1)** example of such a key.
(3 marks)

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10. What are the **FOUR (4)** basic steps of the "*boot process*"? (4 marks)
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11. Identify **TWO (2)** utility programs which are included in the Windows Operating system and state the role of each program. (4 marks)
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12. Give a definition of the motherboard of a personal computer. (1 mark)
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13. Today microprocessor speeds are usually expressed in **gigahertz (GHz)**, _____ of cycles per second.

14. Identify **THREE (3)** features of a computer which you would use in assessing the image quality of a monitor. (3 marks)
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15. Outline the steps in the process of using Microsoft Word to create a Table of Contents for a document. (6 marks)

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16. Identify **THREE (3)** graphic file formats which you would insert in a PowerPoint presentation. (3 marks)

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17. Identify an audio file format which you would insert in a PowerPoint presentation. (1 mark)

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18. Identify **FOUR (4)** basic tags which each HTML document should include (4 marks**)**

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19. Identify **SEVEN (7)** major components which are housed within the System Unit of a personal computer. (7 marks)

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20. (a) State the full name of the acronym USB and (b) briefly explain the reason for its popularity. (2 marks)

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21. (a) State the full name of the acronym BIOS and (b) briefly explain its function. (2 marks)

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22. Identify **TWO (2)** keys which can be used to pause a PowerPoint presentation and to show a blank screen. (3 marks)

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23. Identify **ONE (1)** rule which can be used to produce an effective layout of a PowerPoint slide. (1 mark)

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24. (a) What is a cell in a spreadsheet? (b) How is a cell referenced? (2 marks)

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25. Outline the steps in the process of introducing a monthly or weekly "Series" into an Excel spreadsheet. (2 marks)

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26. You have calculated the grades for your students out of a total of 50 marks and now need to convert these marks out of 25. Give the Excel formula which you would use to do the conversion of the data in cell B2. (2 marks)

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27. Outline the formula which you would use in Excel for generating the average of the non-blank cells A1 to A14 in cell A15. (2 marks)

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28. Identify **THREE (3)** ways in which hackers can cause damage to computer systems and networks. (3 marks)

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29. (a) What is a firewall, and (b) How does it keep a computer safe from hackers? (2 marks)

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30. Identify **THREE (3)** types of viruses from which there is need to protect a personal computer connected to the Internet? (3 marks)

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31. Give the meaning of bandwidth or data transfer rate.

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END OF QUESTION PAPER