THE UNIVERSITY OF THE WEST INDIES
Semester I □  Semester II □  Supplemental/Summer School □
Examinations of December □  /April/May □  /July □  2009
Originating Campus: Cave Hill □  Mona □  St. Augustine □
Mode: On Campus □  By Distance □

Course Code and Title: **LIBS1501 – Computer Literacy for Information Professionals**

Date: Time: 2 Hours

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 12 pages & 33 questions.**

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

**ANSWER ALL QUESTIONS.**

1. Select the correct response for each of the following: (2 marks)

   a. The Internet evolved from ARPANET, a U.S. government sponsored project.

      ( T / F )

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University Examiner (where applicable)

Second Examiner External

Examiner (where applicable)

Date: 20…/…/…

Date: 20…/…/…
b. Lady Ada Lovelace suggested the use of punched cards to Charles Babbage in the 
   i. 18th century  
   ii. 19th century  
   iii. 20th century  

c. The first operational electronic computer was named the:  
   i. ENIAC  
   ii. UNIVAC  
   iii. IBM 650  
   iv. Monrobot  

d. The punched card tabulating machine used in the 1890 census was invented by:  
   i. Babbage  
   ii. Gates  
   iii. Hollerith  
   iv. Kapor  

2. Give THREE (3) characteristics each for search engines and subject directories. 
   (3 marks)  
   ____________________________________________________________________________  
   ____________________________________________________________________________  
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3. What is the Invisible Web and why does it exist? (2 marks)  
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Second Examiner External  
Examiner (where applicable)  

Date: 20…/…/……  
Date: 20…/…/……
4. Which of the following features are common to Google, Yahoo and Ask.com? (2 marks)
   a. Phrase searching by enclosing terms in double quotes
   b. Truncation
   c. OR searching with capitalized OR
   d. Case sensitivity
   e. – excludes; + requires exact form of word
   f. Limit results by language in Advanced Search

5. List any FOUR (4) characteristics of someone who has achieved information technology competency. (2 marks)

6. Explain the notion of timeliness as a characteristic of information. (1 mark)
7. Indicate whether the following statements are true or false by circling the appropriate letter. (2.5 marks)
   a. Supercomputers can process data at 1 trillion instructions per second  T / F
   b. Mainframe computers provide decentralized storage and processing of data T / F
   c. Minicomputers can cost between US$500,000 and US$35,000,000 T / F
   d. A notebook computer is an example of a minicomputer T / F
   e. Workstations are used for computer aided design and number crunching T / F

8. List any FOUR (4) characteristics of computers which have given rise to their popularity. (1 mark)

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9. Write one sentence each on any THREE (3) services provided on the Internet (1.5 marks)

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University Examiner (where applicable)

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Examiner (where applicable)

Date: 20…/…/……
Date: 20…/…/……
10. Give TWO (2) reasons why a command interface is difficult to use and give two ways in which a menu interface addresses these difficulties. (2 marks)

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11. Briefly describe any FOUR (4) on-screen controls that can be found on a dialog box. (2 marks)

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12. What do the following acronyms stand for? (1 mark)
   a. EBCDIC
   b. ASCII

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13. Give THREE (3) functions of Random Access Memory. (1.5 marks)

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14. Why is cache memory able to speed up processing? (.5 mark)

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15. Distinguish between a dual processor system and a dual core processor system. (2 marks)

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16. How does the control unit of the CPU differ from the arithmetic logic unit from a functional standpoint? (2 marks)

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17. Fill in the blanks in the sentences which follow: (1.5 marks)

a. A storage medium, also called secondary storage, is the _____________ material on which a computer keeps data, instructions and information.

b. A storage device is the computer hardware that _______________ and/or________________ items to and from storage media.

18. Draw a line to match a characteristic from the right to a storage medium on the left. (2.5 marks)

<table>
<thead>
<tr>
<th>Hard Drive</th>
<th>Consists of several platters mounted on a spindle</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD-ROM</td>
<td>Capacity of 1.44 MB</td>
</tr>
<tr>
<td>Magnetic Tape</td>
<td>Can store a full-length movie</td>
</tr>
<tr>
<td>Floppy Disk</td>
<td>Capacity of 680 MB</td>
</tr>
<tr>
<td>DVD</td>
<td></td>
</tr>
</tbody>
</table>

19. What is defragmenting? (1 mark)

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Second Examiner External                       Examiner (where applicable)

Date: 20…./…./……                                  Date: 20…./…./……
20. Briefly explain the following abbreviations: (1.5 marks)
   a. OCR
   b. MICR
   c. OMR

21. Fill in the blank. Each roller in a mouse is attached to a wheel called an
    ______________. (.5 mark)

22. A modem translates a PC’s ______________ data into ______________ signals. (1 mark)

23. Draw lines to connect an objective in Microsoft Word with the actions that can be performed to achieve it. Note that each objective can have several actions. (2 marks)

<table>
<thead>
<tr>
<th>Objective</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select a paragraph</td>
<td>Triple click in left margin</td>
</tr>
<tr>
<td>Select a line</td>
<td>Double Click in left margin</td>
</tr>
<tr>
<td>Select entire document</td>
<td>Double click on any word</td>
</tr>
<tr>
<td>Select a single word</td>
<td>Single click in left margin</td>
</tr>
<tr>
<td></td>
<td>Press Ctrl + A on keyboard</td>
</tr>
<tr>
<td></td>
<td>Triple click in paragraph</td>
</tr>
</tbody>
</table>
24. Give **FOUR (4)** advantages of source data automation. (2 marks)

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25. List any **FIVE (5)** criteria you would use when selecting a printer. (2.5 marks)

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26. Give any **FIVE (5)** specifications you would use to select an ideal computer system for yourself. (2.5 marks)

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First Examiner University Examiner (where applicable)
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Second Examiner External Examiner (where applicable)
Date: 20…/…/…… Date: 20…/…/……
27. Give **THREE (3)** ways in which operating systems differ from one another.  **(1.5 marks)**

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28. Indicate any **FIVE (5)** types of application software that you would install on your computer, giving brief reasons for each.  **(2.5 marks)**

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29. Give any **FIVE (5)** functions performed by database management systems.  **(2.5 marks)**

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Second Examiner External  Examiner (where applicable)
Date: 20…/…/……  Date: 20…/…/……
30. Which **TWO (2)** steps below do NOT belong in the programming process? (1 mark)
   a. Defining the problem
   b. Planning the solution
   c. Solving the problem
   d. Coding the program
   e. Testing the program
   f. Documenting the program
   g. Distributing the program

31. Indicate whether the statements given below are True or False by circling the appropriate letter. (1.5 marks)
   a. A Local Area Network connects nodes in widely-dispersed geographic areas. **T** / **F**
   b. A Metropolitan Area Network is more encompassing than a local area network, but smaller than a Wide Area Network. **T** / **F**
   c. A Tiny Area Network connects nodes within a group of buildings. **T** / **F**

32. Identify any **THREE (3)** security problems that could affect computer systems and indicate three solutions to the problems. (3 marks)
33. Diagrammatically represent a Star, Ring and Bus topologies. (3 marks)

END OF PAPER