University of Kelaniya – Sri Lanka

External Examinations Branch
Faculty of Commerce & Management Studies

Bachelor of Business Management (General) Degree First Examination (External) – 2010
January 2012

BMGT E 1065 – Information Technology

Time: 03 Hours

This question paper consists of three (03) parts - part I, II and III

Instructions.

(i) Answer all questions in parts I and II.

(ii) Part I consists of 15 Multiple choice questions. Each question carries 02 marks. Total marks for part I is 30.

(iii) Part II consists of 10 questions. Each question carries 02 marks. Total marks for part II is 20.

(iv) Part III comprises of 03 questions. You are expected to answer 02 questions only. Each question carries 25 marks. Total marks for part III is 50.

(v) It is compulsory to write answers for the questions in part I and II in the question paper itself and it should be attached to the answer booklet containing answers for part III.

(vi) Part I and II of the question paper should not be taken out of the examination hall.

(vii) Do not use additional paper to answer the questions in Parts I and II.
6. Which one of the following is a reason that users should log on with a username and password?
   a. To be aware of who is in the building.
   b. To check up on the time-keeping of users.
   c. To protect computers against unauthorized use.
   d. To enable a personalized greeting for each user.

7. Which one of the following statements about a password is TRUE?
   a. It must be changed only if it is compromised.
   b. It cannot contain special character symbols.
   c. It should be a strong one which other cannot guess.
   d. It must be registered with the system administrator.

8. Which one of the following is an unsafe online activity?
   a. Giving your home address to someone you met in a chat room.
   b. Using a screen name or nick name that cannot identify you.
   c. Meeting someone you met online face-to-face in the company of your parents.
   d. Keeping your social network profile private.

9. Which one of the following describes Bluetooth?
   a. Short-range wired protocol for exchanging data.
   b. Short-range wireless protocol for exchanging data.
   c. Long-range wireless protocol for exchanging data.
   d. Long-range wired protocol for exchanging data.

10. Which one of the following would NOT happen if a computer suddenly malfunctions?
    a. The operating system will fail.
    b. Files saved on the hard drive will be lost.
    c. All off-site backups will be lost.
    d. Some software may have to be reinstalled.

11. Which one of the following shows file size from smallest to largest?
    a. Gigabyte, Megabyte, Kilobyte, Byte.
    b. Megabyte, Gigabyte, Kilobyte, Byte.
    c. Byte, Kilobyte, Megabyte, Gigabyte.
    d. Byte, Megabyte, Kilobyte, Gigabyte.
12. Which one of the following statements about software copyright is **TRUE**?
   a. Copyright promotes the illegal use of software.
   b. Copyright is the exclusive legal right of software authors to produce copies of their own software.
   c. Copyright is designed to protect a disk against computer viruses.
   d. Copyright will prevent a CD-ROM from being duplicated.

13. Which one of the following corresponds to the given set of activities in correct order "pointing and clicking, reading, displaying, voicing"
   a. Speaker, mouse, monitor, input
   b. Mouse speaker, monitor, barcode reader
   c. Mouse, barcode reader, monitor, speaker
   d. Barcode reader, speaker, monitor, mouse

14. Which category of computer-based information systems are concerned with supporting the clerical work an organization?
   a. Office automation systems
   b. Strategic information systems
   c. Business information systems
   d. Expert systems

15. What is a Word Processor used for?
   a. To analyze figures
   b. Creating and editing documents
   c. Storing information
   d. Preparing presentations

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**Part II**

Write answers for questions in the given space

01. What is meant by a Computer Based Information System (CBIS)?
02. What are the components of a contemporary computer system?

(a) ........................................ (b) ........................................
(c) ........................................ (d) ........................................
(e) ........................................ (f) ........................................

03. What is the difference between computer software and hardware?

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04. Compare characteristics of primary storage with those of the secondary storage.

<table>
<thead>
<tr>
<th>Primary storage</th>
<th>Secondary storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) ...............</td>
<td>..................</td>
</tr>
<tr>
<td>(b) ...............</td>
<td>..................</td>
</tr>
</tbody>
</table>

05. Compare characteristics of mainframe computers with those of personal computers (PC).

<table>
<thead>
<tr>
<th>Mainframe Computers</th>
<th>Personal Computers</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) ..................</td>
<td>..................</td>
</tr>
<tr>
<td>(b) ..................</td>
<td>..................</td>
</tr>
</tbody>
</table>

06. Distinguish between an analog and a digital signal

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07. Name two (02) advantages of networking

(a) .................................................................
(b) .................................................................
08. Name basic text formatting methods available in a word processor.

(a) ........................................ (b) ........................................
(c) ........................................ (d) .................................

09. Define what is meant by ‘multitasking’.

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10. What is the difference between a logical and a physical view of data?

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Part III

i. Use a separate answer booklet to answer questions in this section.
ii. Answer only two (02) questions out of three (03) questions.

01. (a) Describe what is meant by an operating system of a computer? Name and describe main operating system capabilities. 

(12 marks)

(c) What is object-oriented programming? How does it differ from conventional software development? 

(07 marks)

(d) List and describe the principal issues in managing hardware and software assets. 

(06 marks)

(Total 25 marks)

02. (a) Name and briefly describe the three components of a DBMS 

(10 marks)

(b) i. Supplier and part information are given in SUPPLIER and PART tables. Write a SQL query to obtain supplier names, supplier identification numbers and addresses of suppliers who supplies Door latch and Door handle. 

<table>
<thead>
<tr>
<th>SUPPLIER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supplier_number</td>
</tr>
<tr>
<td>4058</td>
</tr>
<tr>
<td>2038</td>
</tr>
<tr>
<td>1125</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PART</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part_number</td>
</tr>
<tr>
<td>137</td>
</tr>
<tr>
<td>145</td>
</tr>
<tr>
<td>150</td>
</tr>
<tr>
<td>152</td>
</tr>
</tbody>
</table>

ii. Show how the above SQL query would display. 

(15 marks)

(Total 25 marks)

03. (a) Why has telecommunication technology become such an important aspect for managers and organizations? 

(09 marks)

(b) Write short notes on any four (04) of the following 


ii. Value-Added Networks (VANs)

iii. Peer-to-peer computing 

iv. Search engine 

v. Modem 

(04 x 04 marks = 16 marks)

(Total 25 marks)