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University of Kelaniya - Sri Lanka

Centre for Distance and Continuing Education

Faculty of Commerce & Management Studies

Bachelor of Business Management (General) Degree First Examination (External) – 2019

April - 2023

BMGT E 1065 – Information Technology

Time: 03 Hours

Instructions:

- This paper consists of two parts: Part I and Part II.
- Part I contains 20 multiple choice questions that are compulsory, and the answers should be **underlined** on the paper itself. Taking the Part I paper out of the examination hall is strictly prohibited.
- Part II contains five (05) Essay-Type questions. Select any **three (03) questions** and answer them in the booklet provided.
- Using mobile phones or any other digital device is not allowed.
- Total 100 marks.

PART I - MULTIPLE-CHOICE QUESTIONS

01. Which one of the following is not a type of an application software?
- a) Word processing software
 - b) Spreadsheets software
 - c) Database software
 - d) Utility programs
02. Custom or a tailor-made software that are available for a single client especially for a specific need are known as,
- a) Off-the shelf software
 - b) Bespoke software
 - c) General Purpose software
 - d) Open sources software
03. LAN stands for,
- a) Local Area Network
 - b) Local Around Network
 - c) Local Associated Network
 - d) Local Arena Network
04. When there is a standard phone line and an analog modem to access the Internet, it is known as,
- a) Digital subscriber line
 - b) Wireless internet connection
 - c) Dial-up connection
 - d) Satellite internet connection

05. What should be the top-level domain for educational institutions?
- a) .gov
 - b) .edu
 - c) .org
 - d) .com
06. is a type of a malware which is appears to be benign but doing something other than expected by misleading the users.
- a) Virus
 - b) Worms
 - c) Trojan horses
 - d) Spyware
07. Which one of the following is not a multimedia software?
- a) Windows Media Player
 - b) Microsoft Power BI
 - c) VLC Media Player
 - d) KM Player
08. Which one of the following is used to control specific hardware devices that are connected to a computer?
- a) Operating system
 - b) Device drivers
 - c) Language translators
 - d) Utility programs
09. All of the following are characteristics of a GUI (Graphical User Interface) except,
- a) Many short cuts are available on the screen.
 - b) As the interface is based on graphics, it is very attractive.
 - c) Users should type commands to perform the specific tasks.
 - d) Users can interact with icons which look like images.

10. Which one of the following is not a cloud-based services?
- a) Infrastructure as a service
 - b) Software as a service
 - c) Network as a service
 - d) Platform as a service
11. System software encompasses all the followings except,
- a) Language translators
 - b) Device Drives
 - c) Database Software
 - d) Utility Programs
12. Which of the following is not a way to store data & information online?
- a) OneDrive
 - b) Google Drive
 - c) USB Drive
 - d) iCloud
13. Which of the following is not an Application Areas of Modelling & Simulation?
- a) Economics and Finance
 - b) Digital Lifecycle Design
 - c) Food industry
 - d) Telecommunications
14. What is the aim of the Virtual Reality?
- a) To publicize different types of life
 - b) To show how technology advances over time
 - c) To incentive the use of technology in different contexts
 - d) To create an environment of scenes or objects of real appearance

15. Which gate is known as the universal gate?

- a) NAND
- b) OR
- c) AND
- d) None

16. A flowchart is a _____ representation of an algorithm using various symbols, shapes, and arrows to explain a process or programme.

- a) Graphical
- b) Visual
- c) Both a) and b)
- d) None of the above

17. What will be the output following pseudo code?

Integer p,q,r

Set p=2, q=5, r=9

If((q+9)<p || (q&p)<p)

 r=(p&p)+q

Else

 p=r+p

End if

r=q+p

Print p+q+r

- a) 9
- b) 14
- c) 18
- d) 27

18. A language which is close to the language that is used within the computer is

- a) High level language
- b) Assembly language
- c) Low level language
- d) All of the above

19. Which of the following is not a type of database?

- a) Hierarchical
- b) Relational
- c) Object-Oriented
- d) Decentralized

20. Which of the following is not a characteristic of Database System?

- a) Reduces Storage Space
- b) Hard to use
- c) Minimal Redundancy
- d) Maintaining Integrity

(02 marks for each)

(Total 40 marks)

Part II

Question No 01.

a) State three (03) benefits of having computer-driven technology for the business organizations.

(03 marks)

b) Briefly explain the major functionalities of an operating system.

(05 marks)

c) Explain the major functionality of input hardware devices, output hardware devices and storage devices using 03 examples for each. You may use the following format for this purpose.

<i>Hardware type</i>	<i>Explanation</i>	<i>Examples for hardware</i>
<i>Eg: Input hardware devices</i>		

(06 marks)

d) Select any three (03) of the following computer application types and briefly explain how the employees can be benefitted with those applications in handling their day-to-day activities. You are required to provide example/s for each.

- I. Spreadsheets
- II. Presentations
- III. Image/video editing software
- IV. Word processing software
- V. Online software

(06 marks)

(Total 20 marks)

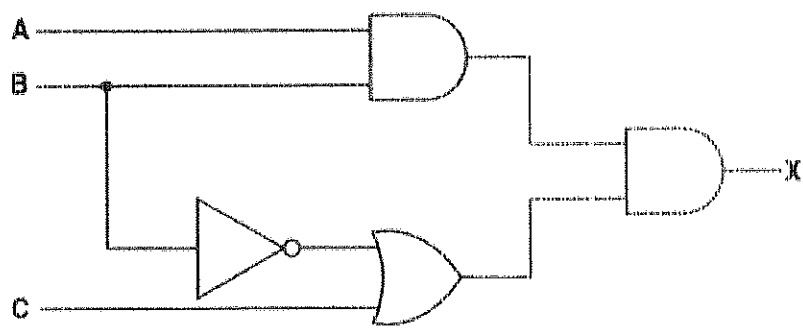
Question No 02.

- a) Briefly explain four (04) uses of internet for the business organizations. (04 marks)
- b) How the information systems are vulnerable to many kinds of computer security threats and attacks? Briefly explain using suitable examples. (08 marks)
- c) Explain four (04) information security strategies that the organizations implement to protect its information assets from computer security threats and attacks using suitable examples. (08 marks)
- (Total 20 marks)

Question No 03.

- a) ABC company reads the hours worked and the hourly rate paid for an employee to calculate the total monthly pay. Consider that ***total monthly pay = hours worked * hourly rate***. If the number of hours worked is greater than 40 then for each additional hour, a 10% overtime is given. Finally print the calculated total pay of an employee.
- i. Draw a flow chart to solve the above problem. (08 Marks)
- ii. Write pseudocode for that given scenario. (08 Marks)

- b) Write a logic statement that corresponds with the following logic circuit



(04 Marks)
(Total 20 marks)

Question No 04.

- a) Define the term 'Simulation' and briefly explain two (02) advantages of simulation.
(04 Marks)
- b) Virtual reality (VR) systems can differ widely from one another based on their role and the technology they employ. State and briefly explain the three (03) main types of virtual reality.
(06 Marks)
- c) Data collected and organized systematically is called a database. Name three (03) characteristics of a database and briefly explain them.
(Marks 06)
- d) A high-level language is one of the major types of computer languages. Mention two (02) high-level languages and state at least two (02) advantages and two (02) disadvantages separately.
(Marks 04)
(Total 20 marks)

Question No 05.

Choose any four (04) of the following and write short notes to explain their business application.

- a) Mobile digital platforms
- b) Green computing
- c) Open-sources and proprietary software
- d) Artificial Intelligence
- e) Software outsourcing
- f) BYOD (Bring your own device)

(05 marks for each)
(Total 20 marks)