UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES ⑦

DEPARTMENT OF PHARMACY

FIRST BPHARM PART I EXAMINATION – NOVEMBER 2020

PH 1163 INFORMATION TECHNOLOGY – SEQ

TIME: ONE HOUR

## INSTRUCTIONS

- There are **Two** questions in **A** and **B** parts in this paper
- Answer **all** questions.
- No paper should be removed from the examination hall.
- Do not use any correction fluid.
- Use illustrations where necessary.

## PART A

**01.**

**1.1**

1.1.1 Briefly describe the purpose of input devices and output devices. **(06 marks)**

1.1.2 Write four input devices and four output devices, which can be connected to your personal computer. **(10 marks)**

1.1.3 Primary memory and Secondary memory are the main categories of memory inside the computer. Describe the purpose of each of the above categories.

    a) Primary Memory **(05 marks)**

    b) Secondary Memory **(05 marks)**

1.1.4 Give examples for Primary memory and Secondary memory. Complete the table given below. **(04 marks)**

| Primary memory | Secondary Memory |
|---|---|
|  |  |
|  |  |
|  |  |
|  |  |

1.1.5 Write the main components of the central processing unit. Describe the purpose of the CPU. **(10 marks)**

1.1.6 What are the differences between conventional hard disks and solid-state disks? Write two of them. **(10 marks)**

**1.2**

1.2.1  Briefly describe the computer software.                                          (*06 marks*)

1.2.2  Write the main categories of software.                                           (*04 marks*)

1.2.3  Describe each category of software mentioned in 1.2.2 briefly.                    (*05 marks*)

1.2.4  Give three examples for each category of software mentioned in 1.2.2.            (*06 marks*)

1.2.5  What are the main features of the modern operating systems? Write down two of them.
                                                                                        (*05 marks*)

1.2.6  Write four names of popular operating systems available in the industry?         (*04 marks*)

1.2.7  List four characteristics of a software.                                          (*05 marks*)

1.2.8  Briefly describe how the Information Systems are used to manage the activities of a pharmacy. Write two methods.                                                 (*10 Marks*)

1.2.9  Describe the following term.

- Open source software                                                           (*05 Marks*)

**02.**

**2.1**

2.1.1  Describe the differences between LAN (Local Area Network) and MAN (Metropolitan Area Network)?                                                               (*10 marks*)

2.1.2    a.  Describe the purpose of ISP.                                                (*02 marks*)

b.  Write three methods, to get the internet connection to your home?

                                                                                        (*03 marks*)

c.  Write three main networking devices do you need to establish a basic computer network.                                                                      (*06 marks*)

2.1.3  Describe the following terms.                                                     (*04 marks*)

a.  Star topology

b.  Mesh topology

2.1.4  If you implement network structure within your organization, you are able to share internet facility to users.

a.  Describe the differences between internet and intranet?                      (*05 marks*)

b.  List five services available in the internet?                               (*05 marks*)

c.  List two disadvantages having a computer network in an organization?

                                                                                        (*05 marks*)

2.1.5  To overcome the problems in traditional human based data processing systems in the organizations, they are trying use computer base information systems.

a.  What is the Transaction Processing System? Briefly describe.                 (*05 marks*)

b.  List five differences between traditional human based data processing systems and computer base information systems?                                            (*05 marks*)

# PART B

**2.2**

2.2.1 A computer is a general-purpose device that can be programmed to carry out a set of arithmetic and logical operations. There are many characteristics/features of a computer. Briefly discuss the five characteristics of a computer. **(*10 marks*)**

2.2.2 When using computers, the device and the files in it are always facing virus threats. But you can take measures to protect your computer against the viruses. Briefly explain how to protect your computer from viruses (at least 5 five actions).

**(*10 marks*)**

2.2.3 Define the term "Protocol" in computer field? **(*10 marks*)**

2.2.4 Discuss five services/applications provided by the Internet by specifying associated protocol for each service. **(*20 marks*)**

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