



UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES

DEPARTMENT OF PHARMACY

FIRST BPHARM PART I EXAMINATION – NOVEMBER/DECEMBER 2019

PH 1163 INFORMATION TECHNOLOGY (SEQ)

TIME: TWO HOURS

INSTRUCTIONS

- There are **two** questions in A and B parts of the SEQ paper.
- Answer **each** part in a separate booklet.
- No paper should be removed from the examination hall.
- Do not use any correction fluid.
- Use illustrations where necessary.

PART A

1.

(A)

- 1.1. Who is the informatics pharmacist? **(05 marks)**
- 1.2. What are the differences between laptop and desktop computers? Write down **two** of them. **(05 marks)**
- 1.3. Describe how the use Information Technology is used to activities in drug discovery and development? **(06 marks)**
- 1.4. Write down **four** input devices, which are able to purchase from the market as computer devices and briefly describe the purpose of the input devices. **(10 marks)**
- 1.5. Write down **four** output devices, which are able to purchase from the market as computer devices and briefly describe the purpose of the output devices. **(10 marks)**
- 1.6. Primary memory and secondary memory are the main categories of memory inside the computer. Describe the purpose of the **two** memory categories given below.
 - 1.6.1. Primary Memory. **(05 marks)**
 - 1.6.2. Secondary Memory. **(05 marks)**

1.7. Give examples for primary memory and secondary memory. Complete the table given below. (04 marks)

1.8. Describe the purpose of the CPU (Central Processing Unit). (04 marks)

1.9. What are the main **three** parts of the central processing unit of the computer? (06 marks)

(B)

1.1 Write down the main categories of software. (04 marks)

1.2 Describe separately about the purpose of each main categories of software. (05 marks)

1.3 Write down **three** examples of each main categories of software. (06 marks)

1.4 Write **two** functionalities of the Operating System. (05 marks)

1.5 Describe the new trends in communication with computers. (10 marks)

1.6 Describe the following terms. (05 marks)

1.6.1. Proprietary software.

1.6.2. Open source software. (05 marks)

2. You need to establish the network infrastructure within your company premises to share several services for staff members.

2.1. What are the benefits of using computer network? (10 marks)

2.2. How do you get internet connection for your office? (02 marks)

2.2.1. Write **two** methods.

2.2.2. Who supply the internet connection to clients? (02 marks)

2.2.3. Write **three** main networking devices which you need to purchase to establish networking facility. (06 marks)

2.3. Write down **three** transmission mediums you can use to implement the networking infrastructure. (06 marks)

2.4. If you implement networking structure within your organization, you are able to use computer based information systems.

2.4.1. Briefly describe the computer based information system. (05 marks)

2.4.2. Write **four** advantages of the computer based information system. (04 marks)

2.4.3. Write down **four** examples for computer based information system. (05 marks)

2.5. To overcome the problems in traditional IT infrastructure in the organizations, they are trying to gain services from cloud base systems.

2.5.1. Briefly describe the purpose of the cloud base solution. (05 marks)

2.5.2. What are the advantages of using the cloud base system? Write **two** of them.

(05 marks)

PART B

2.6. Briefly explain the difference between data and information using examples.

(10 marks)

2.7. History of computer development divided into five generations. Each generation characterized by a major technological development. By highlighting **major technological development (at least two)** briefly describe each generation.

(20 marks)

2.8. Briefly explain why we need Domain Name System (DNS)?

(10marks)

2.9. List down **five** basic Internet Protocols with their services.

(10 marks)

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