UNIVERSITY OF RUHUNA – FACULTY OF ALLIED HEALTH SCIENCES
DEPARTMENT OF PHARMACY
FIRST BPHARM PART I EXAMINATION – DECEMBER 2023
PH 1163 INFORMATION TECHNOLOGY - SEQ PAPER

TIME: ONE HOUR

INSTRUCTIONS

- There are **two** questions in part **A** and **B** in this SEQ 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

1.

1.1 Computers on the Internet use a client/server architecture. Briefly explain the client/server architecture with a suitable example. (**10 marks**)

1.2 An Internet Service Provider (ISP) is a company that provides you with access to the Internet, usually at a cost. Give three examples for ISPs and write down three other services that they are provide. (**10 marks**)

1.3 Breifly discuss five services provided by the Internet including associated protocols for each service. (**10 marks**)

1.4 The WWW uses the concept of hypertext and hypermedia. What is the difference between hypertext and hypermedia? (**10 marks**)

1.5 List down three benefits and three drawbacks of e-learning methods, in comparison to traditional learning methods. (**10 marks**)

PART B

1.6 Write the names of two important secondary storage devices. (**06 marks**)

1.7 Breifly explain how computers can be useful in the medical field. (**04 marks**)

1.8 What is an operating system? Name three popular operating systems. (**08 marks**)

1.9 What is the difference between hard copy and soft copy outputs? (**04 marks**)

1.10 What is meant by a computer virus? (**04 marks**)

1.11 Provide two steps that computer users can take to prevent from computer virus attack to their computers. (**06 marks**)

1.12 Breifly describe what is meant by personal data. **(*04 marks*)**

1.13 Provide two items of personal data that you should never give to a stranger. **(*06 marks*)**

1.14 Provide the name of one input device that would be found on a laptop computer which you would not find on a desktop computer. **(*04 marks*)**

1.15 Breifly explain the differences between IP addresses and MAC address. **(*04 marks*)**

2. Harshana is designing a new computer application to replace the existing application.

2.1 Name four items that need to be designed during the process (select from the below box).

(*08 marks*)

Inputs to the current application
Data capture forms
Report layouts
Limitations of the application
Observation methods
Improvements to the application
User and information requirements
Validation routines
Problems with the current application
File structures

2.2 Before implementing an application, it undergoes testing, where various types of test data are employed. One example of test data is "live data". Breifly describe what is meant by live data. **(*20 marks*)**
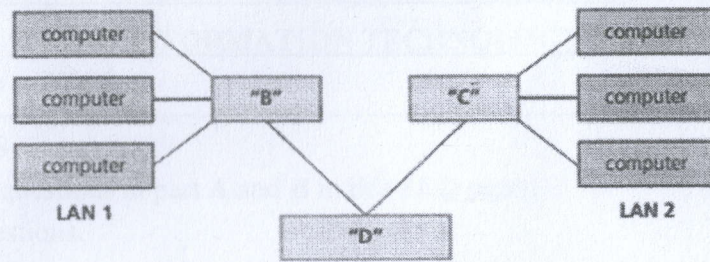
2.3 Put the following six stages of the systems life cycle into their correct order.

(*20 marks*)

- Analysis
- Design
- Development and Testing
- Documentation
- Evaluation
- Implementation

2.4 Briefly describe what is meant by the evaluation stage in the systems life cycle.

(*08 marks*)

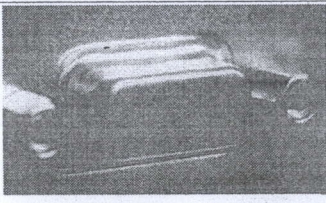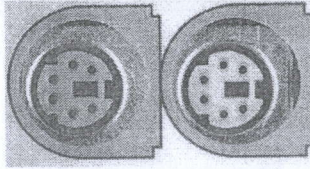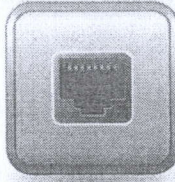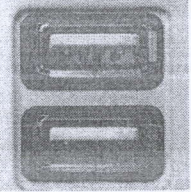2.5 List six advantages of computer networks. **(*06 marks*)**

2

2.6 Name each of the three network devices labeled "B", "D", and "C" in the diagram givenbelow.   (*06 marks*)

computer					computer
computer	"B"		"C"		computer
computer					computer
LAN 1					LAN 2

"D"

2.7 Briefly describe what is Open source Software is.   (*10 marks*)

2.8 Briefly describe the role of the "Informatics Pharmacist".   (*10 marks*)

2.9 Briefly explain the usage of the following computer ports.   (*12 marks*)

2.9.1	
2.9.2	
2.9.2	
2.9.3	

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