NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY

Faculty of Computing and Informatics

Department of Computer Science

QUALIFICATION: Bachelor of IT: Systems Administration and Networks; Bachelor of Computer Science in Cyber Security; Bachelor of Computer Science: Systems Administration; Communication Networks; Software Development	
QUALIFICATION CODE: 80BSAN / 07BACS / 07BCCS	**LEVEL:** 5
COURSE: Introduction to Operating Systems and Networks	**COURSE CODE:** OSN521S
DATE: January 2019	**SESSION:** 2
DURATION: 2 hours	**MARKS:** 70

SECOND OPPORTUNITY / SUPPLEMENTARY EXAMINATION QUESTION PAPER	
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MODERATOR:	Dr. Fungai Bhunu Shava

THIS QUESTION PAPER CONSISTS OF 6 PAGES
(Including this front page)

INSTRUCTIONS

1. Answer ALL the questions.
2. Write clearly and neatly.
3. Number the answers clearly.
4. When answering questions you should be guided by the allocation of marks. Do not give too few or too many facts in your answers.

PERMISSIBLE MATERIALS

1. None

Section A – Theory questions [14 marks]

Question 1

Choose the correct answer from the multiple choice question below: [5]

1.1 Which of the following is not a benefit of networking?

    a) File sharing
    b) Resource Sharing
    c) Logon to the computer system
    d) Program sharing

1.2 What is the command used to clear the screen?

    a) CLS
    b) CLEAR
    c) CLEAR SCREEN
    d) WIPE

1.3 The slowest transmission speeds are those of ….

    a) Coaxial cable
    b) Fiber-optic cable
    c) Twisted-pair wire
    d) Microwaves

1.4 Which statement is not true about a Linux file system?

    a) The root directory is the start of the file system.
    b) Files are stored in folders under different drives like C:
    c) The root directory further branches out to various other subdirectories.
    d) The root is signified with a forward slash /.

1.5 Which of the following filename extension suggests that the file is a batch file?

    a) .bak
    b) .bac
    c) None of the above
    d) All of the above

Question 2

2.1   What are the responsibilities of a Systems Administrator?   [4]

2.2   Giving reasons, state the knowledge that one needs to be systems administrator. [2]

Question 3

Name any three types of media where you can backup your data.   [3]

Section B – Operating Systems Commands [20 marks]

Question 4

Interpret the following Linux commands:

4.1   **ls –l**   [2]

4.2   **$ chmod** 600 networks.txt   [2]

4.3   **ps** -u John -f   [2]

Question 5

Write down the Windows commands to achieve the following tasks:

5.1   Create a directory called "Namibia University of Science and Technology"   [2]

5.2   Remove the Read Only attribute from a file **exam.doc**   [2]

5.3   Disable a user named Loide   [2]

Question 6

Create a batch file that executes the following tasks. You are required to write down the commands that execute the tasks stated below:

Creates a directory **"school"**,   [1]
Creates subdirectories **"2017"** and **"2018"** within the **"school"** directory   [2]
Creates a file **"thoery.txt"** in the parent folder   [1]
Copies **"theory.txt"** file to the **"2017"** sub directory   [1]
Deletes **"theory.txt"** file   [1]
Lists the contents of the copy of **"theory.txt"**   [1]
Renames **"theory.txt"** to **"training.txt"**   [1]

Section C – User Management [11 marks]

Question 7

Name and explain the three types of user accounts on a Linux system. [6]

Question 8

Explain the following Windows types of users. [5]

8.1   Guest

8.2   Administrator

8.3   User

8.4   Backup Operators

8.5   Power Users

Section D – Resource Management [13 marks]

Question 9

Write down the steps of launching Task manager in Windows and state at least one use of the above mentioned tool. [3]

Question 10

Name the following snap shot and briefly explain its use in Windows. [3]

Adjust your computer's settings   View by: Small icons ▼

Action Center	Administrative Tools	AutoPlay
Backup and Restore	Color Management	Credential Manager
Date and Time	Default Programs	Desktop Gadgets
Device Manager	Devices and Printers	Display
Ease of Access Center	Flash Player (32-bit)	Folder Options
Fonts	Getting Started	HomeGroup
Indexing Options	Intel(R) GMA Driver	Internet Options
Java (32-bit)	Keyboard	Location and Other Sensors
Mail (32-bit)	Mouse	Network and Sharing Center
Notification Area Icons	Performance Information and Tools	Personalization
Phone and Modem	Power Options	Programs and Features
Realtek HD Audio Manager	Recovery	Region and Language
RemoteApp and Desktop Connections	Sound	Speech Recognition
Sync Center	System	Taskbar and Start Menu
Troubleshooting	User Accounts	Windows Anytime Upgrade
Windows CardSpace	Windows Defender	Windows Firewall
Windows Update		

Question 11

11.1   Explain why computer system resources management is important? [2]

11.2   List five functions of Disk management tools. [5]

Section E – Networking Concepts [12 marks]

Question 12

Differentiate between peer to peer and client/server network architecture   [4]

Question 13

State whether the following network descriptions are describing a MAN, WAN, or LAN:

13.1   A network of users that share computer resources in a limited area.   [1]

13.2   A network of users that share computer resources across a metropolitan area.   [1]

13.3   A network that connects local area networks.   [1]

Question 14

With an aid of a diagram, discuss the mesh topology.   [5]

End of paper