

# **COLLEGE OF BUSINESS, PEACE, LEADERSHIP AND GOVERNANCE**

## NCSC302-ADVANCED NETWORKS AND COMMUNICATION

## **END OF FIRST SEMESTER EXAMINATIONS**

# **NOVEMBER 2021**

**LECTURER: MRS L. TEMBANI-FUNDISI** 

**DURATION: 5 HOURS** 

# **INSTRUCTIONS**

Answer four questions

Begin your answer to each question on a fresh page.

## **Question 1**

Consider an organization with many departments, show/demonstrate how VLAN can enable safe sharing of packet within departments and outside departments (25marks)

#### **Question 2**

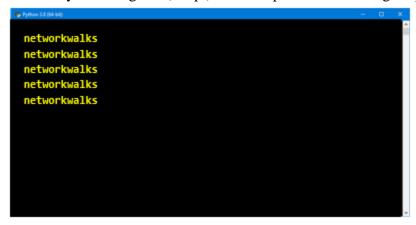
An Application Programming Interface (API) is considered as RESTful API if it meets the "6 Guiding Constraints" of the REST Architecture. Using relevant and factual examples, explicitly explain the 6 guiding constraints. (25 marks)

## **Question 3**

Demonstrate how Audit Command Language (ACL) enable security in an organization with both frequent visitors and designated users. (25marks)

## **Question 4**

Write a Python Program (script) that will produce following output using for Loop (25marks)



## **Question 5**

Using specific and relevant examples, demonstrate how the Layer 2 and 3 protocols ensure safe broadcasting of packet and efficient connectivity. (25marks)

#### **END OF EXAMINATION**