

# **PAN AFRICA CHRISTIAN UNIVERSITY**

## **BACHELORS OF INFORMATION COMMUNICATION TECHNOLOGY**

### **END OF TERM EXAMINATION**

**DEPARTMENT: COMPUTING & INFORMATION TECHNOLOGY**

**COURSE CODE: BCIT 212**

**CAMPUS: ROYSAMBU**

**COURSE TITLE: NETWORK DESIGN & ADMINISTRATION**

**EXAM DATE:**

**TIME:**

### **INSTRUCTIONS**

- This exam carry a total of SIX Questions of [10 Marks Each]
- Section One (I) is compulsory.
- Answer any 3(Three) Questions from Section Two (II)
- Read all questions carefully before attempting.

## **Section One Compulsory 10 marks**

### **Question One.**

a) Analyze the following tools and components used in network construction and cabling setup.

- i. Crimping Tool. **[2 marks]**
- ii. Punch down Tool. **[2 marks]**
- iii. Cable Tester **[2 marks]**
- iv. RJ 45 and RJ 11 **[2 marks]**
- v. Patch Panels **[2 marks].**

## **Section Two Attempt any Three Questions.**

### **Question Two.**

- a) Describe cable arrangements to show how you would terminate Straight through UTP or STP copper cable using *ANSI/TIA/EIA-568-B*, standards. **[5 marks].**
- b) Describe cable arrangements to show how you would terminate A cross Over UTP or STP copper cable using *ANSI/TIA/EIA-568-B*, standards. **[5 marks].**

### **Question Three**

- a) Analyze THREE Network transmission impairment experienced in Network operations and how each could be avoided. **[5 Marks]**
- b) IP Resolver is one tool which can be used in IP Spoofing for common network attacks Identify its key outcomes. **[5 marks]**

### **Question Four**

- a) Analyze FOUR major challenges associated with most wireless Network Implementations. **[6 marks]**
- b) Analyze the appropriate remedies for the following network bottlenecks.
- i. Crosstalk. **[2 mark]**
  - ii. Signal Attenuations. **[2 mark]**

### **Question Five.**

- a) Discuss functions and operation of an Intrusion detection system. **[5 marks]**
- b) Identify FIVE other Forms of Network administrative controls available for a network administrator. **[5 marks]**

### **Question Six.**

Analyze the Terms of reference to consider in Extending a network to a new building establishment to include Guided and Unguided media users. **[10 marks]**

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