Module/Competence Detail		Trainee's Detail	
SECTOR:	ICT	**Names:**	
SUB-SECTOR	Networking	**Class**	
Qualification Title:	TVET Certificate IV	**Date:**	
MODULE (Code & Name):	NEWPS401: SWITCHING	**Trainer's Detail**	
Competence Title:	Perform switching	**Names:**	
School:		**DECISION**	......../100 Marks
		Signature	

End of second term comprehensive assessment

Instructions

This exam has three section A, B and C

◆ **Answer all Question in provided answer space**

◆ **Section A:** Answer all questions **55Marks**

◆ **Section B:** Choose Only Three Questions **30Marks**

◆ **Section C:** Choose Any One Question   **15Marks**

SECTION A: Attempt all questions in section A**/ 55 marks**

Q1. choose and the write the correct answers **[18Marks]**

    I. **Which frame completes the entries in switching**
- A. Acknowledgment frame
- B. Setup frame
- C. Routing frame
- D. None

    II. **Which one of the following switch functions is needed to pass data between two PCs, each connected to a different VLAN?**
- A. Layer 2 switch
- B. Layer 3 switch
- C. Trunk
- D. Tunnel

    III. **Which VLANs are allowed on a trunk link by default ?**
- A. None
- B. Only the native VLAN
- C. All active VLANs
- D. Only negotiated VLANs

    IV. **Which one of the following is a valid VTP advertisement?**
- A. Triggered update
- B. VLAN database
- C. Subset
- D. Domain

Q2. What are Ethernet frame fields? **[7Marks]**

Q3. What is the difference between broadcast domain and collision domain**?** **[4Marks]**

Q4. In different ways of accessing either Router or switches, we use different lines. Namely, VTY, CONSOLE or AUX lines. Give the difference between VTY and CONSOLE lines. **[4Marks]**

Q5. Why is network segmentation a good idea when managing a large network? **[5Marks]**

Q6. What are the two ports of switches? **[4Marks]**

Q7. Why is it said that the switch ports are under some Broadcast domain by Default? **[4Marks]**

Q8. what is sub interfaces? **[4Marks]**

Q9. What is MAC Address? **[5Marks]**

SECTION B: <u>Choose one (3) question in section B/ 30 marks</u>

Q10: Switches are made in different platforms/ form factors

A. Give different types of switch form factors. **[6Marks]**
B. The information in switch is in the form of Frames. What is the difference between Tagged frame and Untagged Frame? **[4Marks]**

Q11: Router and Switches are both networking devices that perform packet forwarding techniques

A. What is Packet forwarding /**4 Marks**

B. Give and Explain 2 Types of packet forwarding as used in either Switches or routers /**6 Marks**

Q12: Apart from Cut-Through Versus Store-and-Forward Switching features state other five Switching features.[**10Marks**]

Q13: **I**n some cases, different network administrators find the need in configuring VTP. (VLAN TRUNKING PROTOCOL).

A. What is VTP? **[1marks]**
B. VTP performs in three (3) main modes. What are they? **[3marks]**
C. Write down the commands needed for VTP Client, and VTP Server switches to begin VLAN advertisement process. **[6marks]**

<u>SECTION C:</u> Choose one (1) question in section C /**15 MARKS**

Q17: LAN traffic can be managed through assigning the network users in different VLANs

A. Give any three benefits of VLAN in a certain Network. **[3Marks]**

B. Give five (5) types of VLAN you know. **[4Marks]**

C. What is inter-VLAN **[2Marks]**

D. Differentiate the type of inter-VLAN in detail [**6Marks**]

Q18: A certain company needs to setup the network and configure 2 VLANs in it as VLAN 5 with ICT as the name and VLAN 10 with STAFF as the name**/**

A. Write down the commands to create the above VLANs **[5Marks]**

B. Write down the commands needed for interfaces FastEthernet 0/1 and FastEthernet 0/2 to be assigned in VLAN 5 and FastEthernet 0/3 in VLAN 10 [**5Marks**]

C. Write down the commands required to create as Switch Virtual Interface (SVI) into VLAN 5 with the IP of 192.168.10.10/24 **[5Marks]**