ICT PRACTICAL WORKSHEET - STD IX

Worksheet No	10.1
Name of Chapter	A Network of Computing Devices
Name of Activity	Network Setup and Device Identification
Software Used	Network Settings + Terminal + File Manager
Time	40 Minutes

Order of Events

Activity	Instructions
Part A: Network Discovery	
Open Network Settings	Access network configuration from system menu or control panel.
Identify Connection Type	Determine if using Wi-Fi or Ethernet connection.
Find MAC Address	Locate and record Hardware/MAC address.
Check IP Address	Find and document IPv4 address.
Part B: Network Testing	
Open Terminal	Launch Terminal/Command Prompt application.
Test Connectivity	Use `ping` command to test connection to another computer.
Trace Network Path	Use `traceroute` to trace path to a website.
Part C: Device Documentation	
Document Network Devices	Identify and list all network devices in lab (computers, printers, routers, etc.).
Compare IP Addresses	Share addresses with classmates and identify numbering patterns.
Draw Network Diagram	Create simple diagram showing lab network layout.
Part D: Basic File Sharing	
Open File Manager	Launch Files application.
Connect via SSH	Use "Other Locations" → "Connect to Server" with `ssh://IP_address`
Transfer Test File	Copy a file to and from connected computer.
Part E: IoT Identification	
List Smart Devices	Identify 3 IoT/smart devices that could connect to network.

ICT PRACTICAL WORKSHEET - STD IX

Worksheet No	10.2
Name of Chapter	A Network of Computing Devices
Name of Activity	Advanced Configuration and Services
Software Used	Terminal + Web Browser + Remmina
Time	40 Minutes

Order of Events

Activity	Instructions
Part A: IP Configuration	
Set Static IP	Configure static IP address in Network Settings.
Test Static Configuration	Verify new IP works using `ping` command.
Part B: Remote Access	
Enable Remote Desktop	Turn on screen sharing in Settings.
Connect via Remmina	Use Remmina with VNC to view another computer's screen.
Test Remote Control	Open application on remote computer.
Part C: Web Services	
Open Web Browser	Launch web browser.
Compare Access Methods	Access website using IP address vs domain name.
Test DNS Resolution	Use `nslookup` to find IP of domain names.
Part D: Network Services	
Configure Network Printer	Set up and test shared network printer.
Test Scanner Sharing	Use network scanner if available (XSane application).
Part E: Performance Testing	
Test Bandwidth	Use online speed test tools.
Compare Connections	Test wired vs wireless speeds.
Part F: Troubleshooting	
Diagnose Issues	Identify and resolve common network problems.
Create Final Report	Document all tests and results comprehensively.