

Selvam College Of Technology, Namakkal (Autonomous)

IT Support & Development Training Programme (ISDTP)



Worksheet -8			
Bundle	Proficient Bundle V2		
&Subject	(2025) Troubleshooting	Semester	VIII
Name	V2		

Answer Key. (10*1=10)

- 1. What is the most likely reason device on the LAN cannot access the internet despite being able to connect to the router?
 - A) The router's DHCP server is misconfigured
 - B) The LAN ports are malfunctioning
 - C) The router's routing table is misconfigured
 - D) The router's DNS settings are incorrect

Ans: C) The router's routing table is misconfigured

- 2. Which of the following could prevent routing between the LAN and WAN on a router?
 - A) DHCP server not assigned to the WAN port
 - B) Incorrect static routing configuration
 - C) Incorrect IP address on the WAN interface
 - D) A malfunctioning DNS server

Ans: B) Incorrect static routing configuration

- 3. What could cause the router to not route traffic from the LAN to the WAN, even if the router itself is working correctly?
 - A) The WAN port is in bridge mode
 - B) The modem's DHCP server is malfunctioning
 - C) The LAN IP address is incorrect
 - D) The router's firewall is blocking outgoing traffic

Ans: D) The router's firewall is blocking outgoing traffic

- 4. Which router setting needs to be enabled for the router to translate LAN IP addresses into a public IP for internet access?
 - A) Routing Protocol B) NAT (Network Address Translation)
 - C) DNS forwarding D) VPN tunneling

Ans: B) NAT (Network Address Translation)

- 5. Which router feature should you check if devices on the LAN can access local resources but cannot reach external websites?
 - A) VPN tunneling settings
 - B) Routing table and default gateway
 - C) DNS configuration on the router
 - D) Static IP assignment on LAN devices

Ans: B) Routing table and default gateway

- 6. What could cause a router to have internet connectivity, but not route traffic from the LAN to the internet?
 - A) The router is configured to use a static IP for the WAN
 - B) The router is running in bridge mode
 - C) The router's DHCP server is not running
 - D) The router's NAT feature is disabled

Ans: D) The router's NAT feature is disabled

- 7. When configuring the router's LAN ports, what should the router's LAN subnet mask typically be set to for a typical home or office network?
 - A) 255.255.255

B) 255.255.0.0

C) 255.255.255.0

D) 255.0.0.0

Ans: C) 255.255.255.0

- 8. Which of the following ensures that devices within your LAN are automatically assigned IP addresses when they connect to the network?
 - A) Static IP addressing

B) DHCP server

C) DNS server

D) NAT

Ans: B) DHCP server

- 9. If you want devices on the LAN to communicate with each other, they must be on the same_____?
 A) IP address B) DNS server C) Subnet D) Router
 Ans: C) Subnet
- 10. Which of the following configurations would allow all devices on the local network to have unique IP addresses while still sharing the same network?
 - A) Using DHCP on the router
 - B) Assigning the same IP address to all devices
 - C) Setting static IPs for each device
 - D) Setting a subnet mask of 255.255.0.0

Ans: A) Using DHCP on the router