## MODEL PAPER "ROUTING & SWITCHING" FOR DIPLOMA IN COMPUTER HARDWARE & NETWORK ENGINEERING (SEMESTER – II) ANNUAL EXAMINATION 2015 & ONWARDS OBJECTIVE PART-A

Time Note:	staff after the prescribe time. Cutting, over	<b>PART-A</b> empted on the Question paper and returned er writing, use of lead pencil, ink remover, flu	
Q. 1. (	Supervisory staff is requested to attach it with the answer book. <b>1. Choose the Correct answer and encircle it.</b> <b>1. 1x10=10</b>		
1.	<b>TCP is a protocol.</b> A. stream-oriented C. block-oriented	B. message-oriented D. packet-oriented	
2.	Which of the following is not the layer of TCP/IP protocol?		
	A. Physical layer C. network layer	B. link layer D. transport layer.	
3.	TCP is a(n) transport protocol.		
	A. protocol delivery C. best-effort delivery	B. reliable D. effortless delivery	
4)	Protocol is a popular example of a link state routing protocol.		
	A. SPF B. BGP	C. RIP D. OSPF	
5)	The types of autonomous system defined by BGP is/are .		
	A. Stub B. Multi-homed	C. Transit D. All of the a	bove
6)	Below given is same as a VLAN t	term, which is correct?	
	A. Isl	B. Broadcast domain	
	C. Port security	D. Collision domain	
7)	You are assigning VLANs to the ports of switch R1. What VLAN number value is an assigned to the default VLAN?		
	A. VLAN 1003 C. VLAN ON	B. VLAN 1 D. VLAN A	
8)	What is the possible range of IP addresses for Class B?   A. 0.0.0.0 through 127.255.255.255   B. 128.0.0.0 through 191.255.255.255   C. 192.0.0.0 through 223.255.255.255   D. 224.0.0.0 through 239.255.255.255		
9)	Most packet switches use this principle		
	A) Stop And Wait C) Both Of The Mentioned	B) Store And Forward D) None Of The Mentioned	
10)	Which one of the following is not a function of network layer?		
	A) Routing C) Congestion Control	<ul><li>B) Inter-Networking</li><li>D) None Of The Mentioned</li></ul>	

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# Time:- 2:15 Hours

Marks:- 40

2X8 =16

# SECTION-I

## Q.1 Write the Short answer to any Twelve (12) form the following questions. 2X12=24

- 1. What is the difference between HUB And Switch?
- 2. Why Router is an Intelligent Device?
- 3. Name the TCP/IP Layers.
- 4. What is meant by Topology?
- 5. What are the standards of Ethernet ?
- 6. What type of information router required for the packet delivery
- 7. What do you know about the WLAN
- 8. What are the advantages using WLAN over the Ethernet and which one is cost efficient?
- 9. Define the functionality of Network
- 10. What Is the difference between Logical and Physical Address
- 11. Why sub netting is necessary for Networks
- 12. Define Switch Modes
- 13. Define RIP
- 14. Define OSPF
- 15. What is the difference between Dynamic and Static Routes?
- 16. Define ACL , what is the purpose of ACL ?
- 17. How can we make WLAN Secure.
- 18. Which type of information router required in its table?

## SECTION II

#### Note: Attempt any 2 questions

Q.2: Write a note on the following topics

- i- Frame Relay ii- ATM Switch
- Q3: Explain the circuit switching and packet switching
- Q4: What do you know about IP? Explain its Classes