Initiation Réseaux Written Exam

no documents allowed - no calculators allowed

cte \mathbf{st}

(1 p	Attention: Pour chaque question, une ou plusieurs affirmations sont valides. Une réponse correctionint) doit obligatoirement comporter TOUTES les affirmations valides. Toute autre réponse et porrecte (0 point).
•	point si toutes les réponses sont BONNE: +0.8
•	point s'il y a au moins une réponse FAUSSE: 0
•	point s'il n'y a pas de réponse: 0
1	. Which of the following protocols are examples of TCP/IP transport layer protocols? (two correct answers)
	A Ethernet
	B IP
	C UDP
	D TCP
2	. Which pairs of devices in the followings would require a crossover UTP cable? (two correct answers)
	A PC and router
	B PC and switch
	C Hub and switch
	D Router and switch
3	. Which of the followings are network reference models? (two correct answers)
	A TCP/IP
	B DIX
	C OSI
	D ALOHAnet
4	. Which of the followings is the most implemented network reference model?
	A TCP/IP
	B DIX
	C OSI
	D ALOHAnet

- C Internet
- D Transport
- 11. Which of the following is true about the cabling of a typical **modern** Ethernet LAN?
 - A Connect each device in series using coaxial cabling
 - B Connect each device in series using UTP cabling
 - C Connect each device to a centralized LAN hub using UTP cabling
 - D Connect each device to a centralized LAN switch using UTP cabling
- 12. Which of the following is a collision domain?
 - A All devices connected to an Ethernet hub
 - B All devices connected to an Ethernet switch
 - C All devices connected to a router
 - D None of the other answers is correct.
- 13. Which of the following Ethernet addresses can be used to communicate with more than one device? (two correct answers)
 - A Burned-in address
 - B Unicast address
 - C Broadcast address
 - D Multicast address
- 14. Which of the following statements best describes what a switch does with a frame destined for an unknown unicast address? (no VLAN)
 - A It forwards the frame out all interfaces in the same network except for the incoming interface.
 - B It forwards the frame out the one interface identified by the matching entry in the MAC address table.
 - C It compares the destination IP address to the destination MAC address.
 - D It compares the frame's incoming interface to the source MAC entry in the MAC address table.
- 15. Which of the following is one of the functions of OSI Layer 1 protocols?
 - A Framing
 - B Delivery of bits from one device to another
 - C How devices forward packets to their final destination
 - D Defining the size and shape of Ethernet cards

16.	Which of the following are valid Class C unicast IP address? (two correct answers)					
	A 1.1.1.1					
	B 200.1.1.1					
	C 192.168.5.2					
	D 223.223.223.255					
17.	Which of the following does a switch normally use when making a decision about forwarding packets?					
	A Destination MAC address					
	B Source MAC address					
	C Destination IP address					
	D Source IP address					
18.	What are the main uses of computer networks today? (three correct answers)					
	A Word processing					
	B Resource sharing					
	C Internet access					
	D E-commerce					
19.	What is the characteristics of the multicast transmission technology?					
	A There is one reserver					
	B There is a subset of receivers					
	C Every machine on the network is a reserver					
	D None of above is correct					
20.	Which of the following statements are true about the LAN network? (two correct answers)					
	A Communication is over short range (1m)					
	B A network operating within a building					
	C The transmission rate is typically between 100Mbps to 1Gbps					
	D Normally connected by different kinds of networking technology					
21.	Which of the following protocols allows a client PC to discover the IP address of another computer based on that other computer's name (URL)?					
	A ARP					
	B ICMP					

C DNS			

- 22. Which of the following protocols corresponds to the command ping?
 - A ARP

D DHCP

- B ICMP
- C DNS
- D DHCP
- 23. PC1, PC2 and PC3 are connected via switches. PC1 and PC2 are in VLAN1, while PC3 is in VLAN2. Which following statement is true?
 - A PC1 can ping PC2
 - B PC1 can ping PC3
 - $\rm C\ PC2\ can\ ping\ PC3$
 - D PC1, PC2 and PC3 are NOT in the same physical LAN
- 24. Which following statement is true about TCP and UDP?
 - A UDP provides a connection-oriented service
 - B UDP service is always reliable
 - C TCP provides a connection-oriented service
 - D TCP service is always reliable
- 25. Which of the following devices would be in the same broadcast domain as PC1? (three correct answers)
 - A PC2, which is separated from PC1 by an Ethernet hub
 - B PC3, which is separated from PC1 by a transparent bridge
 - C PC4, which is separated from PC1 by an Ethernet switch
 - D PC5, which is separated from PC1 by a router