All the Multiple Choice Question and Answer (MCQs) have been compiled from the books of Data Communication and Networking by the well known author behrouz A forouzan.

This Data Communication and Networking – Connecting LANs, Backbone Networks, and Virtual LANs multiple choice Questions and Answers (MCQ) PDF covers the below lists of topics.

- 1. IEEE 802.11 standard for wireless LANs Multiple Choice Question and Answer.
- 2. Physical layer methods Multiple Choice Question and Answer.
- 3. Frequency-hopping spread spectrum (FHSS) Multiple Choice Question and Answer.
- 4. Direct sequence spread spectrum (DSSS) Multiple Choice Question and Answer.
- 5. Orthogonal frequency-division multiplexing (OFDM) Multiple Choice Question and Answer.
- 6. High-rate direct sequence spread spectrum (HR-DSSS) Multiple Choice Question and Answer
- 7. Bluetooth network Multiple Choice Question and Answer

Practice now to sharpen your concept.

- 1. A repeater is a connecting device that operates in the layer of the Internet model.
 - A. physical
 - B. data link
 - C. network
 - D. all of the above



	A regenerates a signal, connects segments of a
L	AN, and has no filtering capability.
	A. repeater
	B. bridge
	C. router
	D. none of the above
3.	A is a connecting device that operates in the
	nysical and data link layers of the Internet model.
	A. repeater
	B. bridge
	C. router
	D. none of the above
4	A bridge can femulated and filter frames and
	A bridge can forward and filter frames and
aı	Itomatically build its forwarding table.
	A. simple
	B. dual
	C. transparent
	D. none of the above
_	
	A bridge can use the algorithm to create a
10	opless topology.
	A. binary tree
	B. spanning tree
	C. multiway tree
	D. none of the above
^	A LANI allows a second LANI de la consecutión
Ь.	A LAN allows several LANs to be connected.
	A. backbone
	B. wireless



Downloaded from www.examradar.com C. wired D. none of the above 7. A backbone is usually a _____. A. bus B. star C. either (a) or (b) D. neither (a) nor (b) 8. A virtual local area network (VLAN) is configured by A. software B. physical wiring C. hardware D. none of the above 9. Membership in a VLAN can be based on _____ A. port numbers B. MAC addresses C.IP addresses D. all of the above 10. VLANs can

- A. reduce network traffic
- B. provide an extra measure of security
- C. either (a) or (b)
- D. both (a) and (b)

Answer key for MCQ SET- 1	
Q-1	Correct Answer :physical



Q-2	Correct Answer :repeater
Q-3	Correct Answer :bridge
Q-4	Correct Answer :transparent
Q-5	Correct Answer :spanning tree
Q-6	Correct Answer :backbone
Q-7	Correct Answer :either (a) or (b)
Q-8	Correct Answer :software
Q-9	Correct Answer :all of the above
Q-10	Correct Answer :both (a) and (b)

Connecting LANs, Backbone Networks, and Virtual LANs MCQ Set-2

1.	is just a connector
	A. An active hub
	B. A passive hub
	C. either (a) or (b)
	D. neither (a) nor (b)
	. , . ,

- 2. In a star-topology Ethernet LAN, _____ is just a point where the signals coming from different stations collide; it is the collision point.
 - A. An active hub
 - B. A passive hub
 - C. either (a) or (b)
 - D. neither (a) nor (b)
- 3. _____ is part of the media; its location in the Internet model is below the physical layer.



	A. An active hub B. A passive hub C. either (a) or (b) D. neither (a) nor (b)
_	A is a device that operates only in the physical yer. A. passive hub B. repeater C. bridge D. router
W	Areceives a signal and, before it becomes too eak or corrupted, regenerates the original bit pattern. It en sends the refreshed signal. A. passive hub B. repeater C. bridge D. router
	A forwards every frame; it has no filtering apability. A. passive hub B. repeater C. bridge D. router
us	is actually a multiport repeater. It is normally sed to create connections between stations in a physical ar topology A. An active hub



- B. A passive hub
- C. either (a) or (b)
- D. neither (a) nor (b)
- 8. A _____ operates in both the physical and the data link layer.
 - A. passive hub
 - B. repeater
 - C. bridge
 - D. router
- 9. A _____ can check the MAC addresses contained in the frame.
 - A. passive hub
 - B. repeater
 - C. bridge
 - D. router
- 10. A _____ has a table used in filtering decisions.
 - A. passive hub
 - B. repeater
 - C. bridge
 - D. none of the above

Answer key for MCQ SET- 2	
Q-1	Correct Answer :A passive hub
Q-2	Correct Answer :A passive hub
Q-3	Correct Answer : A passive hub
Q-4	Correct Answer :repeater
Q-5	Correct Answer :repeater



Q-6	Correct Answer :repeater
Q-7	Correct Answer :An active hub
Q-8	Correct Answer :bridge
Q-9	Correct Answer :bridge
Q-10	Correct Answer :bridge

Connecting LANs, Backbone Networks, and Virtual LANs MCQ Set-3

	A is a device in which the stations are empletely unaware of its existence. A. passive hub B. repeater C. simple bridge D. transparent bridge
	IEEE 802.1d specification, defines criteria for a ansparent bridges. A. two B. three C. four D. none of the above
3.	A spanning tree is a graph in which there is no A. node B. branch C. loop



D. arc

to L	In a bridged LAN, the algorithm creates a pology in which each LAN can be reached from any other AN through one path only. A. spanning tree B. binary tree C. unary tree D. none of the above
	A three-layer switch is a kind of A. repeater B. bridge C. router D. none of the above
	A two-layer switch is a A. repeater B. bridge C. router D. none of the above
ha ch	Some new two-layer switches, called switches, ave been designed to forward the frame as soon as they leck the MAC addresses in the header of the frame A. cut-through B. go-through C. come-through D. none of the above
	A is a three-layer device that handles packets used on their logical addresses.

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- A. repeater
- B. bridge
- C. router
- D. none of the above
- 9. A _____ normally connects LANs and WANs in the Internet and has a table that is used for making decisions about the route.
 - A. repeater
 - B. bridge
 - C. router
 - D. none of the above
- 10. A _____ switch is a faster and more sophisticated router.
 - A. two-layer
 - B. three-layer
 - C. four-layer
 - D. none of the above

	Answer key for MCQ SET- 3	
Q-1	Correct Answer :transparent bridge	
Q-2	Correct Answer :three	
Q-3	Correct Answer :loop	
Q-4	Correct Answer :spanning tree	
Q-5	Correct Answer :router	
Q-6	Correct Answer :bridge	
Q-7	Correct Answer :cut-through	
Q-8	Correct Answer :router	



Q-9	Correct Answer :router
Q-10	Correct Answer :three-layer

Connecting LANs, Backbone Networks, and Virtual LANs MCQ Set-4

A. bus B. ring C. star	_ backbone, the backbone is just one switch f the above
	•



	C. multidrop D. none of the above
5.	VLANs create domains A. unicast B. multicast C. broadcast D. none of the above
po	In a(n) configuration, the administrator types the ort numbers, the IP addresses, or other characteristics, sing the VLAN software. A. manual B. automatic C. semiautomatic D. none of the above
CC	In a(n) configuration, the stations are automatically onnected or disconnected from a VLAN using criteria efined by the administrator A. manual B. automatic C. semiautomatic D. none of the above
	In a(n) configuration, the initializing is done anually, with migrations done automatically. A. manual B. automatic C. semiautomatic D. none of the above



Answer key for MCQ SET- 4		
Q-1	Correct Answer :gateway	
Q-2	Correct Answer :gateway	
Q-3	Correct Answer :star	
Q-4	Correct Answer :point-to-point	
Q-5	Correct Answer :broadcast	
Q-6	Correct Answer :manual	
Q-7	Correct Answer :automatic	
Q-8	Correct Answer :semiautomatic	
Q-9		
Q-10		

