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Started on Wednesday, 1 May 2019, 4:26 PM

State Finished

Completed on Wednesday, 1 May 2019, 4:33 PM

Time taken 6 mins 51 secs

Marks 30.00/30.00

Grade 10.00 out of 10.00 (**100**%)

Question **1**

Correct

Mark 1.00 out of 1.00

A router performs routing when a data packet arrives.

Select one:

- True
- False

The correct answer is 'False'.

Question 2

Correct

Mark 1.00 out of 1.00

When a packet arrives, a router performs forwarding.

Select one:

- True
- False

The correct answer is 'True'.

Question 3	Longest Prefix Matching is performed by routing software.
Correct Mark 1 00 aut of	Select one:
Mark 1.00 out of 1.00	O True
	● False ✓
	i alse 🗸
	The correct answer is 'False'.
Question 4 Correct	To perform forwarding, a router needs to perform routing first.
Mark 1.00 out of	Select one:
1.00	True ✓
	O False
	The correct answer is 'True'.
Question 5	Routing tables are copied at every output port.
Correct	Treatming tables and deplots and the party party.
Mark 1.00 out of	Select one:
1.00	O True
	False ✓
	The correct answer is 'False'.
6	
Question 6 Correct	To perform forwarding, a router must inspect the source address in the arriving packet's header.
Mark 1.00 out of	rieddei.
1.00	Select one:
	O True
	False ✓
	The correct answer is 'False'.

Question 7 Correct	Routing table is copied to each input port
Mark 1.00 out of	Select one:
1.00	a. to achieve redundancy
	
	c. to increase forwarding accuracy
	d. to avoid head of line blocking
	Your answer is correct.
	The correct answer is: to speed up table lookup
Question 8 Correct	in a router, packets can be queued
Mark 1.00 out of	Select one:
1.00	a. only at input ports
	b. only at output ports
	o c. at both input and output ports ✓
	d. inside the switching fabric
	Your answer is correct.
	The correct answer is: at both input and output ports
Question 9 Correct	Ternary content addressable memories (TCAMs) are used by routers
Mark 1.00 out of 1.00	Select one:
	a. to store more complex routes
	 b. to speed up the process of longest prefix matching
	c. to improve storage reliability
	d. to increase memory capacity
	Your answer is correct.
	The correct answer is: to speed up the process of longest prefix matching

Question 10 Correct Mark 1.00 out of 1.00	Routers need switching fabric to move packets from output buffer/port to input buffer/port Select one: True False
	The correct answer is 'False'.
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Question 11 Correct Mark 1.00 out of 1.00	Output ports in routers would not require buffering if the transmission links were faster than the total capacity of the switching fabric Select one: True False
	The correct answer is 'True'.
Question 12 Correct Mark 1.00 out of 1.00	Head of line blocking cannot occur at output port buffers. Select one: True ✓ False
	The correct answer is 'True'.
Question 13 Correct Mark 1.00 out of 1.00	An link scheduler in a router Select one: a. is required to speed up packet forwarding b. can help prioritise transmission of packets carrying data from different types of services c. makes sure that no packet is droped d. always transmit packets from the head of the queue
	Your answer is correct.
	Tour answer is correct.

The correct answer is: can help prioritise transmission of packets carrying data from different types of services

Question 14 Correct Mark 1.00 out of 1.00	IP packet fragmentation Select one: a. helps speed up data delivery in the Internet
	 b. cannot be avoided c. can be avoided by controlling TCP segment size ✓ d. can be avoided by configuring the maximum transfer unit (MTU) of the underlying link layer.
	Your answer is correct. The correct answer is: can be avoided by controlling TCP segment size
Question 15 Correct Mark 1.00 out of 1.00	Each network interface of a host must be configured with an IP address. Select one: True ✓ False
	The correct answer is 'True'.
Question 16 Correct Mark 1.00 out of 1.00	A laptop can assume only one IP address at a time. Select one: True False ✓
	The correct answer is 'False'.
Question 17 Correct Mark 1.00 out of 1.00	Two hosts connected to the same subnet can reach each other without the help of a router. Select one: True True
	The correct answer is 'True'.

Question 18 Correct Mark 1.00 out of 1.00	In the original "classful" addressing scheme, the network address part of the 32-bit IP address could have a maximum of Select one: a. 8 bits b. 10 bits c. 16 bits d. 24 bits ✓ Your answer is correct. The correct answer is: 24 bits
Question 19 Correct Mark 1.00 out of 1.00	In today's CIDR addressing scheme, the subnet part of the 32-bit IP address Select one: a. can only have 24 bits b. must be at least 8 bits long c. can have maximum length of 28 bits d. can have arbitrary length d. can have arbitrary length
	Your answer is correct.
	The correct answer is: can have arbitrary length
Question 20 Correct Mark 1.00 out of 1.00	Classful addressing scheme could work without the help of subnet masks Select one: True False
	The correct answer is 'True'.
Question 21 Correct Mark 1.00 out of 1.00	CIDR addressing scheme could work without the help of subnet masks Select one: True False ✓
	The correct answer is 'False'.

Question 22 Correct Mark 1.00 out of 1.00	How many IP addresses belong to the subnet 128.119.254.0/26? Select one: a. 16 b. 32 c. 64 d. 128 Your answer is correct. The correct answer is: 64
Question 23 Correct Mark 1.00 out of 1.00	What are the IP addresses at the two end-points of the subnet 128.119.254.0/26? Select one: a. 128.119.254.0 and 128.119.254.63 ✓ b. 128.119.254.0 and 128.119.254.128 c. 128.119.254.63 and 128.119.254.128 d. 128.119.254.0 and 128.119.254.64 Your answer is correct. The correct answer is: 128.119.254.0 and 128.119.254.63
Question 24 Correct Mark 1.00 out of 1.00	Without DHCP, a host cannot be configured with an IP address. Select one: True False ✓
	The compatibility of the lead
	The correct answer is 'False'.
Question 25 Correct Mark 1.00 out of 1.00	From IP address, one can guess the geographic location of the device. Select one: True False
	The correct answer is 'True'.
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Question 26 Correct Mark 1.00 out of 1.00	The two subnets 128.119.245.129/25 and 128.119.245.4/26 have overlapping IP addresses. Select one: True False ✓ The correct answer is 'False'.
Question 27 Correct Mark 1.00 out of 1.00	One of the advantages of NAT is that the organisation can change addresses of the devices within its local network without notifying the outside world Select one: True False
	The correct answer is 'True'.
Question 28 Correct Mark 1.00 out of 1.00	NAT violates layering principle. Select one: True ✓ False
	The correct answer is 'True'.
Question 29 Correct Mark 1.00 out of 1.00	For NAT to work, we need at least two public IP addresses. Select one: True False
	The correct answer is 'False'.

Question 30 Correct	NAT manipulates TCP port numbers to improve data security.
Mark 1.00 out of 1.00	Select one: ☐ True ☐ False ✓
	The correct answer is 'False'.