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$CN_{-}OSL$	-Subnetting:	Attem	nt revuexu
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	Monday, 4 August 2025, 4:59 PM
State	Finished
	Monday, 4 August 2025, 5:13 PM
	14 mins 33 secs
Marks	20.00/20.00
Grade	100.00 out of 100.00
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Question 1	
Complete	
Mark 1.00 out of 1.00	
A network 10.0.0.0/8	is split into 256 subnets. What is the new subnet mask?
O b. /10	
c. /16	
O d. /24	
O 4. ,	
Question 2	
Complete	
Mark 1.00 out of 1.00	
How many hosts can a. 8 b. 10 c. 14 d. 6	a /29 subnet accommodate?
Complete	
Mark 1.00 out of 1.00	
How many subnets c	an be created with a /28 prefix in a Class C network?
○ a. 4	
b. 16	
○ c. 8	
Od. 2	

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Question 4	
Complete Mark 1.00 ou	rt of 1.00
Mark 1.00 OL	1.00
How ma	ny total IP addresses are available in a /30 subnet?
	4
a.b.	
О b.	
○ c.	
∪ u.	2
Question 5	
Complete	
Mark 1.00 ou	ut of 1.00
HTTP on	perates at which layer of the OSI model?
υρ	at the age of the continued.
○ a.	Presentation
O b.	Network
○ c.	Transport
d.	Application
Question 6	
Complete Mark 1.00 ou	***************************************
IVIAIR 1.00 OC	
In which	OSI layer do switches operate?
\bigcirc 3	Transport
	Data Link
	Network
	Physical
O U .	
Question 7	
Complete	
Mark 1.00 ou	ut of 1.00
The OSI	model has how many layers?
○ a.	
○ b.	8
○ c.	6
d.	7

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Question 8
Complete
Mark 1.00 out of 1.00
What is the broadcast address for the 192.168.10.64/26 subnet?
○ a. 192.168.10.128
○ b. 192.168.10.63
○ c. 192.168.10.65
● d. 192.168.10.127
Question 9
Complete
Mark 1.00 out of 1.00
What is the CIDR notation for the subnet mask 255.255.255.248?
a. /29
○ b. /26
○ c. /27 ○ d. /28
○ u. 728
Question 10
Complete
Mark 1.00 out of 1.00
MI - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
What is the network address of 192.168.1.75/27?
a. 192.168.1.96
b. 192.168.1.64
○ c. 192.168.1.0
○ d. 192.168.1.128
Question 11
Complete
Mark 1.00 out of 1.00
What is the Protocol Data Unit (PDU) at the Network layer?
○ a. Frames
b. Segments
© c. Packets
○ d. Bits

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Question 1	12
Complete Mark 1.00 o	nut of 1.00
IVIAIR 1.00 0	out of 1.00
What is	the subnet mask for a /26 network?
○ a.	255.255.255.0
O b.	255.255.255.224
C.	255.255.255.192
○ d.	255.255.255.240
Question 1	13
Complete	
Mark 1.00 o	out of 1.00
Which I	layer establishes, manages, and terminates sessions between applications?
a.	Session
	Network
○ c.	Application
	Presentation
Question 1	14
Complete	·•
Mark 1.00 o	out of 1.00
Which I	layer handles encryption and decryption of data?
O 2	Session
	Presentation
О с.	Transport
	Physical
O G.	Thyseus the second of the seco
Question 1 Complete	15
Mark 1.00 o	out of 1.00
Which I	layer is responsible for end-to-end delivery of messages?
○ a.	Physical
	Transport
○ c.	Data Link
	Network
J 23.	

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Question 16	
Complete	
Mark 1.00 out of 1.00	
Which layer of the OSI model is responsible for path determination and logical addressing?	
a. Transport	
○ b. Application	
○ d. Data Link	
a :: 17	
Question 17 Complete	
Mark 1.00 out of 1.00	
Which layer of the OSI model is responsible for reliable transmission of data segments between points on a network?	
a. Network	
b. Session	
c. Application	
● d. Transport	
Question 18	
Complete	
Mark 1.00 out of 1.00	
Which of the following IPs is a valid host in the 192.168.1.0/24 network?	
○ a. 192.168.1.255	
a. 192.168.1.233b. 192.168.1.1	
c. 192.168.1.0	
○ d. 192.168.2.1	
Question 19	
Complete Mark 1.00 out of 1.00	
Wark 1.00 Out of 1.00	
Which of the following is a valid subnet mask?	
a. 255.255.255.252b. 255.0.255.0	
a. 255.255.255.252b. 255.0.255.0c. 255.255.0.255	

Question 2	20
Complete	
Mark 1.00 d	out of 1.00
\	of the following is not a function of the Data Link Layer?
vvnicn	of the following is not a function of the Data Link Laver?
○ a.	
O b.	Framing