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N-081-	Subnettin	g: Attempt	review
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	Monday, 4 August 2025, 4:56 PM
	Finished
	Monday, 4 August 2025, 5:08 PM
Time taken	12 mins 1 sec
Marks	18.00/20.00
Grade	<b>90.00</b> out of 100.00
Question 1	
Complete	
Mark 1.00 out of 1.00	
A network 10.0.0.0/8  a. /24 b. /10 c. /9 d. /16	is split into 256 subnets. What is the new subnet mask?
Complete	
Mark 0.00 out of 1.00	
How many hosts can  a. 8 b. 10 c. 14 d. 6	a /29 subnet accommodate?
Question 3	
Complete	
Mark 1.00 out of 1.00	
How many subnets ca  a. 2  b. 8  c. 4  d. 16	an be created with a /28 prefix in a Class C network?

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Question 4 Complete
Mark 1.00 out of 1.00
How many total IP addresses are available in a /30 subnet?
○ a. 6
○ b. 8
© c. 4
○ d. 2
Question 5
Complete  Mark 1.00 out of 1.00
HTTP operates at which layer of the OSI model?
HTTP operates at which layer of the Osi model?
a. Transport
○ b. Presentation
○ c. Network
d. Application
Question 6
Complete
Mark 0.00 out of 1.00
In which OSI layer do switches operate?
○ a. Transport
<ul><li>a. Transport</li><li>b. Physical</li></ul>
<ul><li>a. Transport</li><li>b. Physical</li><li>c. Data Link</li></ul>
<ul><li>a. Transport</li><li>b. Physical</li></ul>
<ul> <li>a. Transport</li> <li>b. Physical</li> <li>c. Data Link</li> <li>d. Network</li> </ul>
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<ul> <li>a. Transport</li> <li>b. Physical</li> <li>c. Data Link</li> <li>d. Network</li> </ul>
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CN-OSI-Subnetting:	Aftemnt	review.
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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	
○ c. 192.168.10.63	
○ d. 192.168.10.65	
Question 9 Complete	
Mark 1.00 out of 1.00	
What is the CIDR notation for the subnet mask 255.255.255.248?	
○ a. /26	
○ b. /28	
○ c. /27	
● d. /29	
Question 10 Complete	
Mark 1.00 out of 1.00	
What is the network address of 192.168.1.75/27?	
a. 192.168.1.96	
○ c. 192.168.1.128	
○ d. 192.168.1.0	
Question 11	
Complete	
Mark 1.00 out of 1.00	
What is the Protocol Data Unit (PDU) at the Network layer?	
a. Segments	
○ b. Bits	
○ c. Frames	
■ d. Packets	

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Question 12
Complete
Mark 1.00 out of 1.00
What is the subnet mask for a /26 network?
a. 255.255.255.0
O b. 255.255.255.240
○ c. 255.255.254
● d. 255.255.255.192
Question 13
Complete
Mark 1.00 out of 1.00
Which layer establishes, manages, and terminates sessions between applications?
○ a. Network
O b. Presentation
c. Session
Od. Application
Question 14
Complete  Mark 1.00 out of 1.00
Walk 1.50 Out Of 1.50
Which layer handles encryption and decryption of data?
<ul><li>a. Presentation</li></ul>
<ul><li>a. Presentation</li><li>b. Physical</li></ul>
○ b. Physical
<ul><li>b. Physical</li><li>c. Transport</li></ul>
<ul><li>b. Physical</li><li>c. Transport</li></ul>
<ul> <li>b. Physical</li> <li>c. Transport</li> <li>d. Session</li> </ul> Question 15 Complete
<ul><li>b. Physical</li><li>c. Transport</li><li>d. Session</li></ul>
<ul> <li>b. Physical</li> <li>c. Transport</li> <li>d. Session</li> </ul> Question 15 Complete
<ul> <li>□ b. Physical</li> <li>□ c. Transport</li> <li>□ d. Session</li> </ul> Question 15 Complete Mark 1.00 out of 1.00
<ul> <li>b. Physical</li> <li>c. Transport</li> <li>d. Session</li> </ul> Question 15 Complete Mark 1.00 out of 1.00 Which layer is responsible for end-to-end delivery of messages?
<ul> <li>b. Physical</li> <li>c. Transport</li> <li>d. Session</li> </ul> Question 15 Complete Mark 1.00 out of 1.00 Which layer is responsible for end-to-end delivery of messages? <ul> <li>a. Transport</li> </ul>
<ul> <li>b. Physical</li> <li>c. Transport</li> <li>d. Session</li> </ul> Question 15 Complete  Mark 1.00 out of 1.00 Which layer is responsible for end-to-end delivery of messages? <ul> <li>a. Transport</li> <li>b. Network</li> </ul>

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. Network
○ c. Data Link
○ d. Application
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. Application
<ul><li>b. Transport</li></ul>
○ c. Session
○ d. Network
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Question 18
Question 18 Complete
Complete
Complete
Complete Mark 1.00 out of 1.00
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?
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. 192.168.1.0
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. 192.168.1.0  b. 192.168.1.1
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. 192.168.1.0  b. 192.168.1.1  c. 192.168.2.1
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. 192.168.1.0  b. 192.168.1.1  c. 192.168.2.1
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. 192.168.1.0  b. 192.168.1.1  c. 192.168.2.1  d. 192.168.1.255
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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. 192.168.1.0  b. 192.168.1.1  c. 192.168.2.1  d. 192.168.1.255  Question 19  Complete Mark 1.00 out of 1.00
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. 192.168.1.0  b. 192.168.1.1  c. 192.168.2.1  d. 192.168.1.255   Question 19  Complete  Mark 1.00 out of 1.00  Which of the following is a valid subnet mask?
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. 192.168.1.0  b. 192.168.1.1  c. 192.168.2.1  d. 192.168.1.255   Question 19 Complete Mark 1.00 out of 1.00  Which of the following is a valid subnet mask?  a. 255.255.255.252

Question	20
Complete	
Mark 1.00	out of 1.00
Which	of the following is not a function of the Data Link Layer?
VVIIICII	of the following is not a function of the batta Link Layer.
○ a.	Framing
O b.	Error Detection
○ c.	MAC Addressing
<ul><li>d.</li></ul>	Routing