Daffodil International University
Course: Computer Networks
Quiz 2 (Set_A)

Name: **Id:** **Batch:**

1. Which of the following is not a feature of HTTP?
a) Stateless protocol b) Uses TCP c) Provides encryption by default d) Works on port 80

2. Which record type in DNS is used to resolve domain names to IP addresses?
a) MX b) TXT c) A d) SOA

3. Which DNS record type is used to point one domain to another?
a) MX b) CNAME c) A d) PTR

4. What is the default port number for HTTP?
a) 80 b) 53 c) 25 d) 110

5. Which protocol uses port 67 and 68?
a) FTP b) HTTP c) DHCP d) DNS

6. Which of the following best describes VLSM?
a) One fixed size for all subnets b) Subnets of different sizes for better efficiency c) Subnet merging d) MAC-level segmentation

7. What's the primary benefit of using FLSM?
a) Dynamic routing b) Uniform subnet size simplifies management c) Efficient IP usage d) Encryption

8. What is the subnet mask for /26?
a) 255.255.255.0 b) 255.255.255.192 c) 255.255.255.224 d) 255.255.255.240

9. How many IPs are there in a /28 subnet?
a) 4 b) 8 c) 16 d) 32

10. Which service automatically assigns IP addresses in a network?
a) FTP b) DHCP c) DNS d) HTTP

Scenario-Based (Q11–15)

You're hired as a network consultant by NetWave Ltd. They've been assigned the IP block 10.0.0.0/24 for their new branch office. The office includes the following subnets: Management: 40 hosts, Sales: 20 hosts, Support: 12 hosts, IoT Devices: 10 hosts. An intern suggests dividing the block into equal /26 subnets to "keep it simple." Your task is to review the subnetting plan and detect errors or inefficiencies, then assign ranges yourself using VLSM.

11. Which of the following is a correct subnet for the Management team using VLSM?
a) 10.0.0.64/27 b) 10.0.0.0/25 c) 10.0.0.0/26 d) 10.0.0.64/26

12. If 10.0.0.0/26 is used for Management, which is the correct subnet for Sales using VLSM logic?
a) 10.0.0.64/27 b) 10.0.0.128/27 c) 10.0.0.96/28 d) 10.0.0.64/28

13. What mistake exists in the intern's suggestion of using four /26 subnets for these departments?
a) Not enough subnets in a /24 b) Wastes 192 IPs c) Leads to IP conflicts d) Overlapping broadcasts

14. You assign 10.0.0.96/28 to the Support team. What is the broadcast and usable host count?
a) 10.0.0.111, 14 b) 10.0.0.112, 14 c) 10.0.0.111, 14 d) 10.0.0.110, 12

15. After all departments are allocated, what is the next usable subnet in 10.0.0.0/24?
a) 10.0.0.112/28 b) 10.0.0.120/30 c) 10.0.0.128/26 d) 10.0.0.192/27

Daffodil International University
Course: Computer Networks
Quiz 2 (Set_B)

Name: **Id:** **Batch:**

1. Which of the following best describes VLSM?
a) One fixed size for all subnets b) Subnets of different sizes for better efficiency c) Subnet merging d) MAC-level segmentation

2. What's the primary benefit of using FLSM?
a) Dynamic routing b) Uniform subnet size simplifies management c) Efficient IP usage d) Encryption

3. Which protocol uses port 67 and 68?
a) FTP b) HTTP c) DHCP d) DNS

4. Which DNS record type is used to point one domain to another?
a) MX b) CNAME c) A d) PTR

5. Which service automatically assigns IP addresses in a network?
a) FTP b) DHCP c) DNS d) HTTP

6. What is the subnet mask for /26?
a) 255.255.255.0 b) 255.255.255.192 c) 255.255.255.224 d) 255.255.255.240

7. Which of the following is not a feature of HTTP?
a) Stateless protocol b) Uses TCP c) Provides encryption by default d) Works on port 80

8. How many IPs are there in a /28 subnet?
a) 4 b) 8 c) 16 d) 32

9. Which record type in DNS is used to resolve domain names to IP addresses?
a) MX b) TXT c) A d) SOA

10. What is the default port number for HTTP?
a) 80 b) 53 c) 25 d) 110

Scenario-Based (Q11–15)

You're hired as a network consultant by NetWave Ltd. They've been assigned the IP block 10.0.0.0/24 for their new branch office. The office includes the following subnets: Management: 40 hosts, Sales: 20 hosts, Support: 12 hosts, IoT Devices: 10 hosts. An intern suggests dividing the block into equal /26 subnets to "keep it simple." Your task is to review the subnetting plan and detect errors or inefficiencies, then assign ranges yourself using VLSM.

11. Which of the following is a correct subnet for the Management team using VLSM?
a) 10.0.0.64/27 b) 10.0.0.0/25 c) 10.0.0.0/26 d) 10.0.0.64/26

12. If 10.0.0.0/26 is used for Management, which is the correct subnet for Sales using VLSM logic?
a) 10.0.0.64/27 b) 10.0.0.128/27 c) 10.0.0.96/28 d) 10.0.0.64/28

13. What mistake exists in the intern's suggestion of using four /26 subnets for these departments?
a) Not enough subnets in a /24 b) Wastes 192 IPs c) Leads to IP conflicts d) Overlapping broadcasts

14. You assign 10.0.0.96/28 to the Support team. What is the broadcast and usable host count?
a) 10.0.0.111, 14 b) 10.0.0.112, 14 c) 10.0.0.111, 14 d) 10.0.0.110, 12

15. After all departments are allocated, what is the next usable subnet in 10.0.0.0/24?
a) 10.0.0.112/28 b) 10.0.0.120/30 c) 10.0.0.128/26 d) 10.0.0.192/27

Daffodil International University
Course: Computer Networks
Quiz 2 (Set_C)

Name: **Id:** **Batch:**

1. What is the default port number for HTTP?
a) 80 b) 53 c) 25 d) 110

2. Which protocol uses port 67 and 68?
a) FTP b) HTTP c) DHCP d) DNS

3. Which of the following best describes VLSM?
a) One fixed size for all subnets b) Subnets of different sizes for better efficiency c) Subnet merging d) MAC-level segmentation

4. Which record type in DNS is used to resolve domain names to IP addresses?
a) MX b) TXT c) A d) SOA

5. How many IPs are there in a /28 subnet?
a) 4 b) 8 c) 16 d) 32

6. Which service automatically assigns IP addresses in a network?
a) FTP b) DHCP c) DNS d) HTTP

7. Which DNS record type is used to point one domain to another?
a) MX b) CNAME c) A d) PTR

8. What's the primary benefit of using FLSM?
a) Dynamic routing b) Uniform subnet size simplifies management c) Efficient IP usage d) Encryption

9. Which of the following is not a feature of HTTP?
a) Stateless protocol b) Uses TCP c) Provides encryption by default d) Works on port 80

10. What is the subnet mask for /26?
a) 255.255.255.0 b) 255.255.255.192 c) 255.255.255.224 d) 255.255.255.240

Scenario-Based (Q11–15)

You're hired as a network consultant by NetWave Ltd. They've been assigned the IP block 10.0.0.0/24 for their new branch office. The office includes the following subnets: Management: 40 hosts, Sales: 20 hosts, Support: 12 hosts, IoT Devices: 10 hosts. An intern suggests dividing the block into equal /26 subnets to "keep it simple." Your task is to review the subnetting plan and detect errors or inefficiencies, then assign ranges yourself using VLSM.

1. **Which of the following is a correct subnet for the Management team using VLSM?**
   a) 10.0.0.64/27 b) 10.0.0.0/25 c) 10.0.0.0/26 d) 10.0.0.64/26

2. **If 10.0.0.0/26 is used for Management, which is the correct subnet for Sales using VLSM logic?**
   a) 10.0.0.64/27 b) 10.0.0.128/27 c) 10.0.0.96/28 d) 10.0.0.64/28

3. **What mistake exists in the intern's suggestion of using four /26 subnets for these departments?**
   a) Not enough subnets in a /24 b) Wastes 192 IPs c) Leads to IP conflicts d) Overlapping broadcasts

4. **You assign 10.0.0.96/28 to the Support team. What is the broadcast and usable host count?**
   a) 10.0.0.111, 14 b) 10.0.0.112, 14 c) 10.0.0.111, 14 d) 10.0.0.110, 12

5. **After all departments are allocated, what is the next usable subnet in 10.0.0.0/24?**
   a) 10.0.0.112/28 b) 10.0.0.120/30 c) 10.0.0.128/26 d) 10.0.0.192/27

Daffodil International University
Course: Computer Networks
Quiz 2 (Set_D)

Name: **Id:** **Batch:**

1. Which DNS record type is used to point one domain to another?
a) MX b) CNAME c) A d) PTR

2. Which of the following best describes VLSM?
a) One fixed size for all subnets b) Subnets of different sizes for better efficiency c) Subnet merging d) MAC-level segmentation

3. How many IPs are there in a /28 subnet?
a) 4 b) 8 c) 16 d) 32

4. What's the primary benefit of using FLSM?
a) Dynamic routing b) Uniform subnet size simplifies management c) Efficient IP usage d) Encryption

5. Which service automatically assigns IP addresses in a network?
a) FTP b) DHCP c) DNS d) HTTP

6. Which protocol uses port 67 and 68?
a) FTP b) HTTP c) DHCP d) DNS

7. What is the subnet mask for /26?
a) 255.255.255.0 b) 255.255.255.192 c) 255.255.255.224 d) 255.255.255.240

8. Which of the following is not a feature of HTTP?
a) Stateless protocol b) Uses TCP c) Provides encryption by default d) Works on port 80

9. What is the default port number for HTTP?
a) 80 b) 53 c) 25 d) 110

10. Which record type in DNS is used to resolve domain names to IP addresses?
a) MX b) TXT c) A d) SOA

Scenario-Based (Q11–15)

You're hired as a network consultant by NetWave Ltd. They've been assigned the IP block 10.0.0.0/24 for their new branch office. The office includes the following subnets: Management: 40 hosts, Sales: 20 hosts, Support: 12 hosts, IoT Devices: 10 hosts. An intern suggests dividing the block into equal /26 subnets to "keep it simple." Your task is to review the subnetting plan and detect errors or inefficiencies, then assign ranges yourself using VLSM.

1. **Which of the following is a correct subnet for the Management team using VLSM?**
   a) 10.0.0.64/27 b) 10.0.0.0/25 c) 10.0.0.0/26 d) 10.0.0.64/26

2. **If 10.0.0.0/26 is used for Management, which is the correct subnet for Sales using VLSM logic?**
   a) 10.0.0.64/27 b) 10.0.0.128/27 c) 10.0.0.96/28 d) 10.0.0.64/28

3. **What mistake exists in the intern's suggestion of using four /26 subnets for these departments?**
   a) Not enough subnets in a /24 b) Wastes 192 IPs c) Leads to IP conflicts d) Overlapping broadcasts

4. **You assign 10.0.0.96/28 to the Support team. What is the broadcast and usable host count?**
   a) 10.0.0.111, 14 b) 10.0.0.112, 14 c) 10.0.0.111, 14 d) 10.0.0.110, 12

5. **After all departments are allocated, what is the next usable subnet in 10.0.0.0/24?**
   a) 10.0.0.112/28 b) 10.0.0.120/30 c) 10.0.0.128/26 d) 10.0.0.192/27

Daffodil International University
Course: Computer Networks
Quiz 2 (Set_E)

Name: **Id:** **Batch:**

1. Which of the following is not a feature of HTTP?
a) Stateless protocol b) Uses TCP c) Provides encryption by default d) Works on port 80

2. What is the default port number for HTTP?
a) 80 b) 53 c) 25 d) 110

3. How many IPs are there in a /28 subnet?
a) 4 b) 8 c) 16 d) 32

4. What is the subnet mask for /26?
a) 255.255.255.0 b) 255.255.255.192 c) 255.255.255.224 d) 255.255.255.240

5. Which protocol uses port 67 and 68?
a) FTP b) HTTP c) DHCP d) DNS

6. Which record type in DNS is used to resolve domain names to IP addresses?
a) MX b) TXT c) A d) SOA

7. Which DNS record type is used to point one domain to another?
a) MX b) CNAME c) A d) PTR

8. Which service automatically assigns IP addresses in a network?
a) FTP b) DHCP c) DNS d) HTTP

9. Which of the following best describes VLSM?
a) One fixed size for all subnets b) Subnets of different sizes for better efficiency c) Subnet merging d) MAC-level segmentation

10. What's the primary benefit of using FLSM?
a) Dynamic routing b) Uniform subnet size simplifies management c) Efficient IP usage d) Encryption

Scenario-Based (Q11–15)

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1. **Which of the following is a correct subnet for the Management team using VLSM?**
   a) 10.0.0.64/27 b) 10.0.0.0/25 c) 10.0.0.0/26 d) 10.0.0.64/26

2. **If 10.0.0.0/26 is used for Management, which is the correct subnet for Sales using VLSM logic?**
   a) 10.0.0.64/27 b) 10.0.0.128/27 c) 10.0.0.96/28 d) 10.0.0.64/28

3. **What mistake exists in the intern's suggestion of using four /26 subnets for these departments?**
   a) Not enough subnets in a /24 b) Wastes 192 IPs c) Leads to IP conflicts d) Overlapping broadcasts

4. **You assign 10.0.0.96/28 to the Support team. What is the broadcast and usable host count?**
   a) 10.0.0.111, 14 b) 10.0.0.112, 14 c) 10.0.0.111, 14 d) 10.0.0.110, 12

5. **After all departments are allocated, what is the next usable subnet in 10.0.0.0/24?**
   a) 10.0.0.112/28 b) 10.0.0.120/30 c) 10.0.0.128/26 d) 10.0.0.192/27