

Question 1 (3 marks)

Describe three (3) factors as discussed in lectures that should be considered when choosing a strategy.

Question 2 (3 marks)

What are the differences between network analysis and network architecture?

Question 3 (3 marks)

Bandwidth is one resource that needs to be considered in network design. Identify and briefly describe three (3) other resources that must be considered in network design.

Question 4 (3 marks)

Why is requirement analysis important to network architecture and design? Provide three (3) reasons.

Question 5 (3 marks)

Why is it important to consider frequency and duration for application transactions when characterising application behaviour?

Question 6 (3 marks)

Using examples describes three (3) flow models discussed in lectures.

Question 7 (3 marks)

Choose and describe three (3) factors in routing strategies as discussed in lectures.

Question 8 (3 marks)

Identify and briefly describe three (3) areas of network performance mechanisms as discussed in lectures.

Question 9 (3 marks)

Describe three (3) classic security considerations as discussed in lectures.

Question 10 (3 marks)

As discussed in lectures, some advanced technologies should be considered for future networking and network management. Choose one and describe it.

Essay (10 marks, 1000-1200 words)

Why is it important to actively consider the legacy network when developing network design criteria?