



## **FINAL EXAM PREPARATION QUESTIONS**

### **International Cybersecurity Studies MA**

**2024/2025/2**

#### **Risk Assessment, Risk Management – Cybersecurity Regulations and Standards**

1. What is risk, what is proportionate protection?
2. Describe the concept of threats and vulnerabilities.
3. What areas are covered by enterprise risk management?
4. What are the two main approaches to risk assessment?
5. What are the main steps in risk analysis?
6. What is a RACI matrix?
7. Describe the contents of the asset register and data inventory.
8. Describe the main steps of risk management.
9. What is Business Impact Analysis?
10. What is residual risk and what is its acceptance?
11. How may risk control measures be categorized?
12. What are Key Risk Indicators?
13. What are the elements of a risk register?
14. What are the relevant ISO standards for risk management?
15. What is vulnerability assessment?
16. What are the key functions of GRC software?
17. What is the approach of the cybersecurity legislation in the USA? State some examples.

18. What is the approach of the cybersecurity legislation in the EU? State some examples.
19. What is the approach of the ISO/IEC 27001? State some control examples.
20. What is the approach of the PCI DSS? State some control examples.
21. What are the attributes of internal and external audits?

### **IT System and Network Security – Applied Cybersecurity Technologies**

1. Describe the structure of the OSI model and the characteristics of each layer.
2. Describe the types of IP addresses.
3. Describe static and dynamic address allocation.
4. Describe application protocols and services.
5. Describe the different network topologies
6. Describe the functions and characteristics of switches in the network.
7. Describe the functions and characteristics of routers in the network.
8. Describe the principle of network address translation.
9. Describe the characteristics of virtual local area networks.
10. Describe the types and characteristics of firewalls.
11. Describe the characteristics of virtual private networks.
12. Describe at least three network security solutions.
13. What are the security features and built-in security tools of a Windows desktop OS?
14. What are the security features and built-in security tools of a Windows server OS?
15. What are the security features and built-in security tools of a mobile device OS of your preference?
16. What are the security features and built-in security tools of a Linux/Unix/macOS of your preference?
17. What are possible authentication methods?

18. What are the characteristics of the symmetric and asymmetric encryption?

19. What are the characteristics of the electronic signature?

