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| **Unit/**  **Question Number** | **Question** | **Correct answer** | **Incorrect answer** | **Incorrect answer** | **Incorrect answer** |
| 1/1 | The European Cyber Security Agency is called… | …ENISA. | …FIMSA. | …GDPR. | …NIS. |
| 1/2 | In a symmetric encryption scheme, Bob encrypts a message to Alice using the… | …secret key. | …public key of Alice. | …private key of Alice. | ….private key of Bob. |
| 1/3 | Fingerprint scanners are an example of… | …authentication. | …identification. | …authorization. | …accountability. |
| 1/4 | Alice works in a service desk. On her first day, she is assigned ticket manager permissions in the service desk management tool. What is this an example of? | RBAC | MAC | DAC | CAC |
| 1/5 | Which of the following is not a common web application vulnerability according to OWASP? | cookie management | injection | broken authentication | cross-site scripting (XSS) |
| **Unit2 /**  **Question Number** | **Question** | **Correct answer** | **Incorrect answer** | **Incorrect answer** | **Incorrect answer** |
| 2/1 | The consultancy company W Consulting runs a payroll process for its employees. What is the correct legal basis for this process under GDPR? | fulfillment of a contract | legitimate interest | consent | vital interest |
| 2/2 | Which of the following require a Data Protection Officer (DPO)? | Europe and Singapore | Europe and India | Europe, India, California, and Singapore | Europe and California |
| 2/3 | You are the administrator of a website that targets European customers. Which cookies can be left turned on, considering privacy by default? | strictly necessary | functional | tracking | analytical |
| 2/4 | Susan works as an engineer for the manufacturing company X-Mans in California. X-Mans outsourced its employee satisfaction survey to a company called Y-Surveys. Who is the PII principal in this scenario? | Susan | X-Mans | Y-Survey | all parties |
| 2/5 | Susan works as an engineer for the manufacturing company X-Mans in California. X-Mans outsourced its employee satisfaction survey to a company called Y-Surveys. Who is the processor in this scenario? | Y-Surveys | Susan | X-Mans | all parties |
| **Unit/**  **Question Number** | **Question** | **Correct answer** | **Incorrect answer** | **Incorrect answer** | **Incorrect answer** |
| 3/1 | Which method is used to achieve anonymity? | generalization | encryption | hashing | replacing names with a unique identifier |
| 3/2 | Which of the following is usually not a method to achieve algorithmic transparency? | open sourcing the algorithm | ethic boards | auditing techniques | interactive visualization systems |
| 3/3 | In the European Union, which of these cookies can be always turned on without requiring further consent? | strictly necessary cookies | third party cookies | advertising cookies | functional cookies |
| 3/4 | Which ISO standard focuses on protecting PII in public clouds? | ISO 27018 | ISO 27001 | ISO 27017 | ISO 27701 |
| 3/5 | Which organization provides neutral guidelines for cloud security? | Cloud Security Alliance | Microsoft (Azure) | Amazon (AWS) | Security for Cloud Association (SCA) |
| **Unit/**  **Question Number** | **Question** | **Correct answer** | **Incorrect answer** | **Incorrect answer** | **Incorrect answer** |
| 4/1 | A common protocol for SSO is… | …Kerberos. | …Active Directory. | …KDC. | …Centaur. |
| 4/2 | A user undergoes an iris scan and a fingerprint scan in the authentication process. How many factors are used? | 1 | 2 | 3 | MFA |
| 4/3 | What is used to ensure that users can be made accountable for their deeds? | audit trails | interviews | HR processes | stress tests |
| 4/4 | In a typical incident management process, which phase takes place after response? | mitigation | recovery | remediation | detection |
| 4/5 | A user types in his user ID as part of a login process. Which part of the IAAA process is this? | identification | authorization | accountability | authentication |
| **Unit 5/**  **Question Number** | **Question** | **Correct answer** | **Incorrect answer** | **Incorrect answer** | **Incorrect answer** |
| 5/1 | Which security standard is mandatory for organizations processing credit card data? | PCI DSS | ISO 27K | ITIL | BSI Baseline Security |
| 5/2 | A company’s ERP system is outdated. Current vulnerabilities suggest that a hacker could gain access to the system but could not change any data. However, the impairment of confidentiality of the system is valued by the company at EUR 100,000. To setup the system, the estimated costs are EUR 20,000. The risk manager estimates that the likelihood of the hacker making it to the system is once in 20 years. What is the ALE? | 50000 | 20000 | 20000 | 1000 |
| 5/3 | An organization’s ERP system must be operational 24 hours after an incident has happened. Data loss of no more than 30 minutes must occur. What is the RTO of the system? | 24 hours | 30 minutes | 12 hours | 1 hour |
| 5/4 | Which standard of the ISO 27K family focuses on PII in the cloud? | ISO 27018 | ISO 27001 | ISO 27701 | ISO 27005 |
| 5/5 | Due to the risk associated with outdated software, a company decides to turn off the affected system. This is an example of which risk treatment strategy? | risk avoidance | risk mitigation | risk acceptance | risk ignorance |
| **Unit/**  **Question Number** | **Question** | **Correct answer** | **Incorrect answer** | **Incorrect answer** | **Incorrect answer** |
| 6/1 | Which of these is a collision free hash algorithm that was not cracked? | SHA3 | SHA2 | DES | RSA |
| 6/2 | Which of the following is the most secure encryption algorithm that exists? | one-time pads | RSA | 3DES | Cesar Chiffre |
| 6/3 | Which mathematical function is the basis for all asymmetric cryptography systems? | trapdoor | elliptic curve | factoring | hashing |
| 6/4 | Which unique problem does asymmetric cryptography intend to solve? | secure key exchange | secure encryption | secure storing of passwords | web of trust |
| 6/5 | Which authentication model is used in PGP? | web of trust | public key infrastructure | certificate authority | OpenPGP |
| **Unit/**  **Question Number** | **Question** | **Correct answer** | **Incorrect answer** | **Incorrect answer** | **Incorrect answer** |
| 7/1 | Which IPsec mode should be used if authenticity is the main goal? | AH | ESP | tunnel mode | transport mode |
| 7/2 | What kind of encryption is used to sign blocks on a blockchain? | asymmetric | symmetric | one-time pad | IPsec |
| 7/3 | What sort of key is used to sign a message? | private key | public key | signature key | AES key |
| 7/4 | Which of the following is a service in a PKI that issues digital certificates? | certificate authority (CA) | digital certificate | public key infrastructure | certificate issuing agency (CIA) |
| 7/5 | Why does TLS use asymmetric encryption to exchange a key for symmetric encryption? | Symmetric encryption is faster than asymmetric encryption. | Symmetric encryption is more secure than asymmetric encryption. | Due to historic reasons, Netscape implemented it that way. | Key exchange is more easily done in symmetric encryption. |
| 10/1 |  |  |  |  |  |
| 10/2 |  |  |  |  |  |
| 10/3 |  |  |  |  |  |
| 10/4 |  |  |  |  |  |
| 10/5 |  |  |  |  |  |
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