



Examination Answer Books

12 Pages

Instructions to Candidates

1. Please give the information requested in the boxes below.
2. Enter your name in the space provided to the right, fold over and seal down (using the label provided) to hide your name.
3. The answers must be legibly written. The Examiners can either ignore illegible script or have it typed and the expense of typing charged to the candidate.
4. Write your answers in ink.
5. Begin each answer on a fresh page. Do all rough work in the answer book and cross it through.
6. No part of this book is to be torn out; it must be handed in complete.
7. If more books than one are used, fasten them together using the tags available from the invigilator(s).
8. **Every book must be handed in. In no circumstances may answer books, used or unused, be taken out of the examination venue.**

1	Student Number	2304724
2	Title of Examination Paper	DATA SECURITY GOVERNANCE AND COMPLIANCE
3	Module Code	
4	Date and Time of Examination	11/1/2024
5	Examination Venue	310
6	Seat Number	008
7	Number of Answer Books handed in	1

List the numbers of the questions you have attempted	Office Use
1	
2	
X	
A1-30	17
31	2
32	2
33	2
34	1
35	1
B-1	4
B-2	3
B-4	0
Total	35

2304724-1-08037

1. D ✓ ✓
2. C ✓ ✓
3. B ✓ ✓
4. C ✓ ✓
5. D ✓ ✓
6. A ✓ ✓
7. False ✓ ✓
8. D ✓ ✓
9. D ✓ ✓
10. A ✓ ✓
11. A ✓ ✓
12. A ✓ ✓
13. B ✓ ✓
14. C ✓ ✓
15. A ✓ ✓
16. True ✓ ✓
17. C ✓ ✓
18. D ✓ ✓
19. C ✓ ✓
20. B ✓ ✓
21. D ✓ ✓
22. A ✓ ✓
23. A ✓ ✓
24. False ✓ ✓
25. C ✓ ✓
26. A ✓ ✓
27. B ✓ ✓
28. D ✓ ✓
29. B ✓
30. C ✓

17

17

31. Compliance in the context of data security refers to the adherence to the policies, regulation, guideline and so on. Laws, it plays an crucial role for organizations because it can help organizations avoid law penalty, obtain customer public trust and maintain positive reputation, preventing them from hacker's attacks and other security incidents.

2

32.

Cryptography involves an vital role in data security, transforming readable data into decoded information, which prevents the unauthorized access ~~of~~ from invaders or some other parties, It can ^{also} avoid information breaching, you can only send the message to the organization appointed. ~~but without the leak~~ ~~concerns~~ for sensitive information leaking. (CNA) 2

33.

Information Security Policy is based on the local laws, and practice, which can constrain some action on personal information or confidential messages. It raises a scheme on what we should do and what we are prohibited to do. 2

First of all, implementation easily

Implementing easily, ensuring fair and justice, Updating with society should be 3 key elements that should be included in the comprehensive policy. 2

34.

Intrusion Detection System plays an important role in maintaining data security. It's a kind of measurements that can detect the potential security threats and inform the security personnel to find the solution to avoid virus attack and hackers before the whole things come into a big disaster. It's ~~empha~~ This system emphasizes finding the threat as soon as possible. (NIDS) 1

35.

Physical Security involves ensuring the security of local facilities, hardware and so on, preventing ^{them from} physical events and tangible activities that can cause damage or loss. An example of a physical security measure is the surveillance camera, monitoring the events and activity in certain sensitive area. 1

SECTION
B

1. "Security Mechanisms" used in data protection is an important concept of modern data security. They are structures and frameworks designed according to the laws, regulations and good guidelines, aiming at providing, enhancing the security in some organizations and individuals as well.

For instance, access controls can prevent those unauthorized from obtaining the access of, every anyone without permission can't get the right for operation. ~~maintain~~ maintenance. Firewalls is the common barrier between inner data and outer networks, which can mitigate the impacts and influences caused by a cyberattack. ~~it helps to keep~~ it. As for Intrusion detect systems, which plays an important role in maintaining data security, detecting the potential security threats and inform the security personnel to take immediate action.

All the three parts above integrated a integrity, aligning security initiative to business objectives, ensuring the compliance and help us to protect privacy. As for one certain organization, Security Mechanisms provide frameworks and the management system for the upper class, who can make decisions according to the actual mechanism and structure of the company.

(8)

Q1.

Section B

2.

Risk Management is a crucial aspect of data security. There are 3 steps in Risk Management that we need to know, which are the most important.

~~At first~~ first, The first part of Risk Management is identifying the potential security threats, which can do a great damage to the entire company. After identifying the step, the next stage is assessment. Risk management provides a evaluation on the threats' scale and the last step is prioritizing the by the Risk level. Risk Management would decide whether it's necessary for to inform the security personnel who's going to take immediate measures to prevent the threat become even worse.

Risk Management aligns security initiative to the business purpose of the organization.

SECTION
B

4. Security Management Models are very practical when talking about data security. Here are the ~~four~~ 3 common types of models.

Preventive Model: This kind of model are more likely to detect potential security threats, It's will discover the attack of hackers as very soon, but It's a quite complex to make It's the configuration correct.

Detective Model: This kind of model are ~~specialized~~ specialized in detecting unseen problems. It but It's very expensive in ~~manufa~~ setting all the configurations.

Blanced Model: Blanced Model combines the advantages of all the other types of model, It's comprehensive in almost every aspect, but it may cause ~~slow~~ long response time ~~and~~ for massive cal model calculating.

As for recommendations, I think It's necessary for us to choose different models according to various ~~of~~ circumstances. We are supposed to improve our knowledge in model selecting for It's a vital part of data ~~seo~~ security.

180 27001
NIST
COBIT
etc

CO