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## BRAINWARE UNIVERSITY

Term End Examination 2024-2025 Programme - M.Sc.(ANCS)-2023 Course Name - Enterprise Security Architecture and Design Course Code - MNCS403A (Semester IV)

Full Marks: 60 Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

## Group-A

(Multiple Choice Type Question)

1 x 15=15

- Choose the correct alternative from the following:
- (i) Establish the event management in security operations.
  - a) The process of identifying, monitoring, and analyzing security events in enterprise systems.
  - c) The process of managing data events in the enterprise.
- b) The process of managing physical events in the enterprise.
- d) The process of managing network events in the enterprise.
- (ii) What is the primary focus of security governance?
  - a) Implementing security technologies
  - c) Conducting security audits

- b) Developing security policies and standards
- d) Managing security operations
- (iii) Which security architecture template focuses on the design and development of security services?
  - a) The Conceptual Framework for Policy-**Driven Security**
- b) The Identity Management Architecture
- c) The Other Security Services Template
- d) The Border Protection Architecture
- (iv) Which of the following is a component of a policy-driven security architecture?
  - a) The Bill of Materials

b) The Governance Process Overview

c) The Principles Template

- d) The Maintenance and Operations Plan
- (v) Predict which of the following is a benefit of using a policy template.
  - a) It eliminates the need for policy customization.
  - c) It provides a standard format for policy development.
- b) It ensures compliance with all applicable laws and regulations.
- d) It allows for complete elimination of all security threats.
- (vi) Select which of the following is a characteristic of a security technology architecture.
  - a) It provides guidance for security governance
- b) It specifies policies and procedures for security administration

c) It defines security controls and mechanisms	It butilles asset management strategies
for protection	vulnerability management.
for protection  (vii) Select which of the following is a component of	b) Event management
a) Incident management	d) Asset management
c) Risk assessment (viii) Select which of the following is not a factor tha	f affects the system's design. 308 Dami said University
a) Pusings reals	
a) Business goals     c) Regulatory requirements	
c) Regulatory requirements (ix) What is the purpose of security technology archive	nitecture:
a) To develop and enforce corporate security	<ul> <li>b) To define and implement security policies and procedures</li> </ul>
standards	d) To design and develop security technology
c) To measure and manage security	services
operations (x) What is the importance of policy framework?	
a) To provide guidance on how to implement	b) To outline the process for developing
policies	policies
c) To identify the objectives and principles	d) To establish specific rules and procedures
that policies should adhere to	for enforcing policies
(xi) Write the most common form of authenticatio	n.
a) A combination of any of these two items	b) Something that you are
c) A magnetic stripe card	d) Password
(xii) What is the purpose of change control?	
<ul> <li>a) Track changes to system hardware, software, firmware, and documentation.</li> </ul>	b) Maintain visibility of changes to the system.
<b>(1)</b>	d) To track and approve changes to system
Ensure that changes to the system are	hardware, software, firmware, and
approved.	documentation.
(xiii) Assess the main benefit of policy automation.	
a) Reduced costs	b) Improved efficiency
c) Increased revenue	d) Better security
(xiv) Show the main goal of the Policy Automation	Roadmap.
a)  To identify potential policy violations	b) To provide a timeline for implementing
	policy automation
c) To monitor policy compliance	d) To evaluate the effectiveness of existing
(xv) Identify customer-specific products are also k	policies nown as
a) make-to-order.	b) expected products.
c) make-to-stock.	d) goods.
	a, 850as.
Gro	oup-B
	Type Questions) 3 x 5=15
	3 x 3-13
2. Explain security logs to verify potential threats a	and recommend appropriate actions. (3)
3. Define the layers of enterprise security architect	ture. (3)
4. Decide the role of security analytics in security of	operations. (3)
5. Why security governance is important for enter	prise security architecture? (3)
6. Explain the purpose of security governance.	(3)
	OR
Analyze the role of Zero Trust Architecture (ZTA)	) in strengthening enterprise security and (3)
compare it with traditional perimeter-based sec	curity models.
	oup-C
(Long Answer	Type Questions) 5 x 6=3

7. Evaluate the effectiveness of security technology architecture in detecting and mitigating advanced persistent threats (APTs).	(5)		
9. Explain the House Design Model and its relationship to enterprise security architecture.  10. Analyze the importance of concentual architecture in developing policy-driven security			
		11. Explain the significance of incident management in security operations and justify its role.	(5)
		12. Critically evaluate the impact of emerging technologies on policy-driven security architecture.	(5)
Critically analyze the benefits and limitations of a policy-driven security architecture in a cloud computing environment.	(5)		
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