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API ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FOURTH SEMESTER B.TECH DEGREE EXAMINATION (R&S), MAY 2019

Course Code: CS204
Course Name: OPERATING SYSTEMS (CS)

Max. Marks: 100 Duration: 3 Hours

PART A
Answer all questions. Each carries 3 marks.

1 What is the need for system calls in Operating System? 3
2 How does the hardware find the Operating System kernel after system switch-on? 3
3 The long term scheduler directly affects the system performance. Explain how. 3
4 Differentiate thread from a process. 3

PART B
Answer any two questions. Each carries 9 marks.

5 Explain the Kernel data structures with suitable example. 9
6 With the help of a diagram explain the different states of a process. 9
7 A writer process like to send some bulk information to a reader process. Explain the IPC mechanism that can be used for the purpose. 9

PART C
Answer all questions. Each carries 3 marks.

8 What is the difference between counting and binary semaphores? 3
9 Explain the syntax of a monitor. 3
10 What is preemptive scheduling? Give one disadvantage of preemptive scheduling. 3
11 What are the necessary conditions that cause deadlock in a system? 3

PART D
Answer any two questions. Each carries 9 marks.

12 Write an algorithm that satisfies all the critical-section requirements for n process. 9
13 Find the average waiting time and average turnaround time for the processes given in the table below using:- i) SRT scheduling algorithm ii) Priority scheduling algorithm

Process	Arrival Time (ms)	CPU Burst Time (ms)	Priority
P1	0	5	3
P2	2	4	1
P3	3	1	2
P4	5	2	4

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CompTIA Cybersecurity Analyst (CySA+) Certification Exam Sample Questions (Q157-Q162):

NEW QUESTION # 157

The security analyst received the monthly vulnerability report. The following findings were included in the report

- * Five of the systems only required a reboot to finalize the patch application.
- * Two of the servers are running outdated operating systems and cannot be patched

The analyst determines that the only way to ensure these servers cannot be compromised is to isolate them. Which of the following approaches will best minimize the risk of the outdated servers being compromised?

- A. Maintenance windows
- B. Passive discovery
- **C. Compensating controls**
- D. Due diligence

Answer: C

Explanation:

Compensating controls are the best approach to minimize the risk of the outdated servers being compromised, as they can provide an alternative or additional layer of security when the primary control is not feasible or effective. Compensating controls are security measures that are implemented to mitigate the risk of a vulnerability or an attack when the primary control is not feasible or effective. For example, if the servers are running outdated operating systems and cannot be patched, a compensating control could be to isolate them from the rest of the network, or to implement a firewall or an intrusion prevention system to monitor and block any malicious traffic to or from the servers. Compensating controls can help reduce the likelihood or impact of an exploit, but they do not eliminate the risk completely. Therefore, the security analyst should also consider upgrading or replacing the outdated servers as soon as possible.

NEW QUESTION # 158

Which of the following best explains the importance of network microsegmentation as part of a Zero Trust architecture?

- A. To increase the costs associated with regulatory compliance
- B. To reduce hardware costs with the use of virtual appliances
- C. To allow policies that are easy to manage and less granular
- **D. To limit how far an attack can spread**

Answer: D

Explanation:

Microsegmentation involves dividing a network into smaller, isolated segments to restrict lateral movement within the network. This is crucial within a Zero Trust architecture, which assumes that no entity (internal or external) is inherently trustworthy. By limiting access to only necessary network segments, microsegmentation reduces the impact of a potential breach by containing it within a limited area.

NEW QUESTION # 159

Which of the following should be updated after a lessons-learned review?

- A. Disaster recovery plan
- **B. Incident response plan**
- C. Business continuity plan
- D. Tabletop exercise

Answer: B

Explanation:

A lessons-learned review is a process of evaluating the effectiveness and efficiency of the incident response plan after an incident or an exercise. The purpose of the review is to identify the strengths and weaknesses of the incident response plan, and to update it accordingly to improve the future performance and resilience of the organization. Therefore, the incident response plan should be updated after a lessons-learned review.

NEW QUESTION # 160

An incident response team receives an alert to start an investigation of an internet outage. The outage is preventing all users in multiple locations from accessing external SaaS resources. The team determines the organization was impacted by a DDoS attack. Which of the following logs should the team review first?

- A. Web server
- B. Vulnerability scanner
- **C. DNS**
- D. CDN

Answer: C

Explanation:

A distributed denial-of-service (DDoS) attack is a type of cyberattack that aims to overwhelm a target's network or server with a large volume of traffic from multiple sources. A common technique for launching a DDoS attack is to compromise DNS servers, which are responsible for resolving domain names into IP addresses. By flooding DNS servers with malicious requests, attackers can disrupt the normal functioning of the internet and prevent users from accessing external SaaS resources. Official Reference: <https://www.eccouncil.org/cybersecurity-exchange/threat-intelligence/cyber-kill-chain-seven-steps-cyberattack/>

NEW QUESTION # 161

Which of the following is the best use of automation in cybersecurity?

- **A. Ensure faster incident detection, analysis, and response.**
- B. Lower costs by reducing the number of necessary staff.
- C. Eliminate configuration errors when implementing new hardware.
- D. Reduce the time for internal user access requests.

Answer: A

Explanation:

Comprehensive and Detailed Step-by-Step Explanation: Automation in cybersecurity is best utilized to improve the speed and accuracy of incident detection, analysis, and response. Tools like SOAR (Security Orchestration, Automation, and Response) streamline workflows, allowing analysts to focus on more complex tasks while reducing response times. This ensures quicker containment and mitigation of threats.

References:

- * CompTIA CySA+ Study Guide (Chapter 1: Cybersecurity Automation, Page 28)
- * CompTIA CySA+ Practice Tests (Domain 1.3 Tools for Malicious Activity, Page 13)

NEW QUESTION # 162

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