

Entrance Test for Recruit Drive 01 Oct 2022 for AthenianTech Pvt Limited

4 - 5 PM

1. Please fill up your Name, Roll Number, Email Id, Mobile Number , Course

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2. In which of the following situations would scripting be more appropriate than writing a compiled program?

(1 Point)

- ☒ You need to carry out a computation that requires high performance and must be as quick as possible.
- ☐ You need to carry out an administrative task repeatedly, and the task does not require maximum efficiency.
- ☐ Your task requires the use of several specialized libraries (modules) that have interfaces designed for programs written in C (Java).
- ☐ Your computational task requires use of a low-level resource.

3. The following script is called "hello.py":

```
#!/bin/py
```

```
cat '$1' "$2" $3
```

What command does

python hello.py A "B C" D E execute?

(1 Point)

- ☐ cat A B C D E
- ☒ cat \$1 B C D
- ☐ cat \$1 A B C
- ☐ cat A B C D

4. An example of _____ would be when a word processor, a database, and a browser are running on a computer in different address spaces.

(1 Point)

- ☒ Domain separation
- ☐ Resource encapsulation
- ☐ Process isolation
- ☐ Abstraction

5. _____ is an object-oriented concept in which all data and functions required to use the resource are packaged into a single self-contained component. (1 Point)

- ☐ Modularity
- ☐ Layering

- ☒ Resource encapsulation
- ☐ None of the above

6. Only allowing the necessary number of rights to accomplish the task is an example of:(1 Point)

- ☐ Domain separation
- ☐ Least privilege
- ☒ Information hiding
- ☐ Minimization

7. Separating the functionality of a program into independent, interchangeable modules is an example of which cybersecurity first principle?(1 Point)

- ☐ Resource encapsulation
- ☒ Modularization
- ☐ Minimization
- ☐ Abstraction

8. Which cybersecurity first principle only provides the essential details of what is being modeled and provides the minimum information necessary to accomplish the task?(1 Point)

- ☐ Layering
- ☒ Least privilege
- ☐ Process isolation
- ☐ Abstraction

9. Security should be considered at which phase(s) of the software development lifecycle?(1 Point)

- ☐ Analysis and Design
- ☐ Implementation
- ☒ Testing and Maintenance
- ☐ All of the above

10. Which is **not** a true statement?
(1 Point)

- ☐ Poor design and insufficient testing leads to insecure software
- ☐ It is important to consider security at all phases of a software project
- ☒ It is best to add security after the coding is complete
- ☐ Most security issues result from attacks exploiting insecure software

11.
Which of the following are the three basic control structures? Choose all that apply.(1 Point)

- ☒ Sequence
- ☒ Selection
- ☐ Control
- ☒ Repetition

12. Which of the following is a source of input for programs?(1 Point)

- ☐ Keyboard
- ☐ Network

- ☐ File
- ☒ All of the Above

13. Which of the following should be checked for reasonableness? Choose all that apply.(1 Point)

- ☐ Age
- ☐ First Name
- ☒ City
- ☐ Item Price

14. Which of the following inputs would require a specific template or format to be appropriate? Choose all that apply.(1 Point)

- ☒ Social security number
- ☐ National debt
- ☐ Telephone Number
- ☒ Birthdate

15. Which type of input validation applies to a phone number? Choose all that apply.
(1 Point)

- ☒ Length
- ☐ Range or reasonableness
- ☒ Format
- ☒ Type

16. Given the following code, what type of validation error could occur?

```
Avg=total/count;
```

```
System.out.println ("The Average is: " + avg);(1 Point)
```

- ☐ Length check
- ☐ Range check
- ☐ Reasonable check
- ☒ Divide by zero
- ☐ Format check

17. Which of these statements is true?(1 Point)

- ☐ Most programmers follow style guidelines.
- ☒ Most programmers write new code.
- ☐ Most programmers use meaningful variable names
- ☐ Most programmers use constants for data that will not change during program execution.

18. It is in a society's interest to provide its people with a sense of security because (1 Point)

- ☐ Security is widely recognized to be a highly esteemed core value
- ☐ When a society's members are secure, they are more productive for society
- ☐ It is the responsibility of a society to keep its members safe
- ☒ All of these

19. Two common opinions about the relationship between privacy and security are: (1 Point)

- ☒ It is impossible for privacy and security to coexist
- ☐ Privacy protection is necessary in order for security to exist
- ☐ Security protection is necessary in order for privacy to exist
- ☐ Privacy and security are the same thing

20. Email is a prime target of criminal hackers because(1 Point)

- ☐ Email use is widely distributed across the broad population
- ☐ Many organizations' email policies are lax about their employees' compliance
- ☐ Email users are poorly informed about the hazards of common criminal schemes such as phishing
- ☒ All of these

21. A Simulated campaign for demonstrating email hacking incident makes it clear that(1 Point)

- ☐ If technical safeguards are put in place, security is guaranteed
- ☐ The combination of weak technical security mechanisms, poor security processes, and poor human judgment attracts criminals
- ☐ If users are well-informed, no security breaches will happen
- ☒ All of these

22. What weapons do the hackers use to carry out the DDoS attack?(1 Point)

- ☐ Websites such as Netflix, Reddit, etc
- ☒ IoT devices and viruses
- ☐ Email hacking
- ☐ Broken links

23. What makes IoT devices easy targets for criminal hackers?(1 Point)

- ☐ Weak password protection of the devices
- ☐ Easy online access
- ☒ IoT device manufacturers' lack of attention to securing the devices
- ☐ All of these

24. "The actions by a nation-state or international organization to attack and attempt to damage another nation's computers..." is a description of which of the following?(1 Point)

- ☐ Cyber crime
- ☒ Cyber warfare
- ☐ Cyber terrorists
- ☐ Hacktivists

25. Which of the following is not a security challenge?(1 Point)

- ☒ Systems are more standardized than in the past
- ☐ Vulnerabilities are discovered and exploited before fixes can be disseminated
- ☐ Systems are more interconnected than before
- ☐ Smaller devices don't support encryption

26. The potential to cause damage to a system is considered a/an(1 Point)

- ☐ Risk
- ☒ Vulnerability

☐ Threat

☐ Attack

27. A less skilled attacker who uses canned programs to attack a system is called a/an (1 Point)

☐ Cyber Criminal

☒ Script Kiddie

☐ Cyber Criminal

☐ Insider

28. An attack from multiple sources with the intent to disrupt or disable availability is known as a/an (1 Point)

☐ DoS

☒ DDoS

☐ DNS Poisoning

☐ Smurf

29. An attack in which a user downloads what appears to be a useful file, but that actually contains malware that loads in the background and gives the attacker full access to the user's system, is known as a/an (1 Point)

☒ Virus

☐ Worm

☐ Ransomware

☐ Remote access Trojan

30. A form of social engineering in which a spoofed email is sent out to targets of high financial interest (e.g., CEOs, CIOs, etc.) is called (1 Point)

- ☒ Phishing
- ☐ Spearfishing
- ☐ Extortionware
- ☐ Whaling

31. A patient is in the hospital for a surgical procedure. To ensure that an unauthorized user doesn't hack into the hospitals records and modify records, the hospital employs cryptographic processes to "hash" the files, creating a digital fingerprint of that file. This process provides a security service known as(1 Point)

- ☐ Confidentiality
- ☐ Integrity
- ☐ Availability
- ☒ Authentication

32. A security component that could be deployed to provide for confidentiality would be (select the best answer)(1 Point)

- ☐ Audit logs
- ☐ File integrity checkers
- ☐ Intrusion Detection System
- ☒ Encryption

33. Data backups are examples of _____ controls

(1 Point)

- ☐ Preventive
- ☐ Deterrent
- ☐ Detective
- ☒ Corrective

34. You store personal documents and spreadsheets with a cloud provider. You would like your data to be available only to people having a special unlock key. What should you apply to your documents and spreadsheets? (1 Point)

- ☐ File Hashing
- ☒ File Encryption
- ☐ File Permissions
- ☐ File Backup

35. In which of the following attack scenarios does the attacker have the most power? (1 Point)

- ☒ Ciphertext only attacks
- ☐ Known plaintext attacks
- ☐ Chosen plaintext attacks
- ☐ Chosen ciphertext attacks

36. Which of the following are symmetric key ciphers? Select all that apply. (1 Point)

- ☐ DES
- ☒ RSA
- ☐ Diffie-Hellman
- ☐ AES

37. Assume Alice and Bob both have public and private keys in a public key setting. If Alice wants to send Bob a secret message, Alice encrypts her message using _____ key and Bob decrypts it using _____ key. (1 Point)

- ☐ Alice's public, Bob's private
- ☒ Bob's public, Bob's private
- ☐ Alice's private, Bob's public
- ☐ Alice's private, Bob's private

38. Assume Alice and Bob both have public and private keys in a public key setting. If Alice and Bob want to agree on a secret value, then Alice uses her _____ key and Bob's _____ key to compute the secret value. (1 Point)

- ☐ public, public
- ☐ public, private
- ☒ private, public
- ☐ private, private

39. Hash functions can be used for which of the following (more than one may apply): (1 Point)

- ☐ Checking whether a file was corrupted during download
- ☒ Storing passwords
- ☒ Hiding the content of messages so that they can be recovered only when needed
- ☒ d. Digital signatures

40. To sign a message for Bob, Alice encrypts the hash of her message using _____. (1 Point)

- ☐ her public key
- ☐ Bob's public key
- ☒ her private key
- ☐ Bob's private key

41. Which SQL statement is used to extract data from a database?(1 Point)

- ☐ GET
- ☐ EXTRACT
- ☒ SELECT
- ☐ OPEN

42. With SQL, how do you select a column named "FirstName" from a table named "Persons"?

(1 Point)

- ☐ EXTRACT FirstName FROM Persons
- ☐ SELECT Persons.FirstName
- ☒ SELECT FIRSTNAME FROM Persons

43. In C Lang, which format specifier is often used to print integers?(1 Point)

- ☒ %d
- ☐ %s
- ☐ %f
- ☐ %c

44. Which operator can be used to find the memory size (in bytes) of a data type or variable?

The sizeof property (1 Point)

- ☒ The sizeof property
- ☐ The length property
- ☐ The sizer property
- ☐ The len proppty

45. What is the correct JavaScript syntax to change the content of the HTML element below?

`<p id="demo">This is a demonstration.</p>`What is the correct JavaScript syntax to change the content of the HTML element below?

`<p id="demo">This is a demonstration.</p>`
(1 Point)

- ☒ `document.getElementById("demo").innerHTML = "Hello World!";`
- ☐ `#demo.innerHTML = "Hello World!";`
- ☐ `document.getElement("p").innerHTML = "Hello World!";`
- ☐ `document.getElementByName("p").innerHTML = "Hello World!";`

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