Ch-5 Security Future of IOT Ecosystem

One Word Question's



Ques1. Mobile device management similar to that of protection with respect to locking.
Ans. end point

Ques2. Which filtering is a security measure on various wireless networks
Ans. MAC

Ques3. Passwords are used to improve the of a network
Ans. security

Ques4. IOT-A reference model is a both____&____
Ans. Scalable and Secure

Quees5. AI is also named as____.
Ans. Context aware, personalized, and adaptive

Ques6. The Applications of AI are:
Ans. Expert system, Gaming, and Vision Systems etc.

Ques7. Dictionary attacks is a kind of:
Ans. Brute force attack

Ques8. Which attack are based on dictionary attack techniques?
Ans. Hybrid attacks

Ques9. Who is the Father of AI?
Ans. John McCarthy

Ques10. IoT devices are naturally vulnerable to threats.
Ans. Security

Ques11. The main components of an M2M system include programmed to help a network device interpret data and make decisions.
Ans. Sensors, RFID, a Wi-Fi or communication link, and autonomic computing software

Ques12. What are the pillers of blockchain technology?
Ans. Transparency, Immutability, Decentralization

Ques13. Which is one of the most famous IOT security attack?
Ans. The Mirai botnet

Ques14. What are the strong security protocol?
Ans. HTTPS, SSL, SFTP

Ques15. Which Technology used in Bitcoin?
Ans. Block chain

Ques16. What is a type of software designed to help the user's computer detect viruses and avoid them?

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Ans. Antivirus

Ques17. The role of Big Data in IoT's Smart Grid architecture is _____.
Ans. Store data

Ques18. What prevents someone from denying the accessed resource?
Ans. Non-repudiation

Ques19. In the IOT network, Secure Shell(SSH) is network protocol.
Ans. Secure

Ques20. What is the most discussed challenge in IOT?
Ans. Security

Ques21. These applications take data or input from various devices and convert it into viable actions or clear patterns for human analysis?
Ans. Real Time Analytics

Ques22. The scope that hacker can use to break into a system is called as:
Ans. Attack surface

Ques23. Which process is used to keep track of user's activity?
Ans. Accounting

Ques24. The main objective of WOT(Web of Things) is:
Ans. Improve usability and interoperability

MCQ Questions

Ques1. Which one is the most discussed challenge in IoT?
Ans. a) Standard
b) Security
c) Regulation
d) Internet

Ques2. The scope that hacker can use to break into a system is called as:
Ans. a) Attack surface
b) Defense
c) Principle of least privilege
d) Risk mitigation

Ques3. Which of the following prevents someone from denying the accessed resource?
Ans. a) Accounting
b) Non repudiation
c) Sniffing
d) Authorization

Ques4. Which of the following process is used to keep track of user's activity ?
Ans. a) Authentication b) Authoring
c) Authorization d) Accounting

Ques5. Which of the following is used for risk analysis?
Ans. a) OWASP b) STRIDE
c) DREAD d) DAR

Ques6. Which of the following is not an element of threat modeling?
Ans. a) Asset b) Vulnerability
c) Threat d) Time

Ques7. Identify the challenge coming under securing the information
Ans. a) Security
b) Signaling
c) Power Consumption
d) Presence Detection

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Ques8. Iot devices are vulnerable to attacks and threats. One of them is Cryptanalysis attack that means:
Ans.
a) By recovering the encryption information
b) Inject malicious codes
c) Find ciphertext to break the encryption
d) Tamper with the hardware

Ques9. In Asymmetric key cryptography, the private key is kept by:
Ans. a) Sender and Receiver
b) Receiver
c) Both a) & b)
d) None of the above

Ques10. Secure shell (SSH) network protocol is used for:
Ans. a) Remote command-line login
b) Remote command execution
c) Secure data communication
d) All of the mentioned

Ques11. Privacy protection solution was proposed with KP-ABE and CP-ABE
Ans. a) True b) False
c) May be d) None of these

Ques12. _____and_____saves the public and subscribe keys that we have generated with the PubNub Admin portal
Ans. a) Public_key and subscribe_key
b) Public-key and subscribe-key
c) Publickey and subscribekey
d) Key_public and key_subscribe

Ques13. Artificial Intelligence is about_
Ans.
a) Playing a game on Computer
b) Making a machine Intelligent
c) Programming on machine with your own intelligence
d) Putting your intelligence into machine

Ques14. By clicking which key the PubNub will display public, subscribe, and secret keys?
Ans. a) Pane
b) Demo Keyset
c) Portal
d) Network

Ques15. IoT is designed to launch botnet attacks from
Ans. a) Mirai Malware b) Virus
c) Program d) None of these

Ques16. Which among the following terms is related to network security?
Ans. a) DSL b) W3C
c) MIT d) Firewall

Ques17. What are the challenges in IOT?
Ans. a) Energy Consumption
b) Security
c) Network Congestion
d) All of above

Ques18. What is the process of identifying a person before giving an access ?
Ans. a) Auditing b) Authorisation
c) Authentication d) Accounting

Ques19. IOT security management includes?
Ans. a) Protocol abstraction
b) Simple and fast installation
c) Security with hardware
d) Data storage

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Ques20. Botnet is often used to launch attack?
Ans. a) DoS b) DDoS
c) Brute force d) Passive

Ques21. The IIOT stands for:
Ans. a) Indepth Internet of T
b) Innovative Internet of Things
c) Industrial Internet of Things
d) Information Internet of Things

Ques22. The process of converting data into a format that can not be read by another use?
Ans. a) Encryption b) Registring
c) Locking d) None

Ques23. In cryptography, What is cipher?
Ans.
a) Encrypted message
b) Algorithm for performing encryption and decryption
c) Both (a) and (b)
d) None of the above

Ques24. Term SSL and TLS stand for:
Ans.
a) Session Socket Layers and Transport Layer Session
b) Secure Socket Layers and Transport Layer Security
c) Secure Socket Layout and Transport Level Session
d) Series Socket Layers and Transport Layer Session

Ques25. Who created Bitcoin?
Ans. a) Satoshi Nakamoto
b) Samsung
c) Jhon Mcaffee
d) China

Ques26. To secure your data on IOT devices:
Ans.
a) Keep changing your passwords
b) Update your every device
c) Avoid using devices that are risky
d) All of the above

Ques27. Secret words or numbers used for protection of devices is called?
Ans. a) Biometric Data b) Passwords
c) Private Data d) Backup

Ques28. What risks and challenges should be considered in the internet?
Ans. a) Privacy and Security
b) Energy consumption
c) Network congestion
d) All of the above

Ques29. What is Secure Shell (SSH)?
Ans. a) A router
b) A Firewall
c) A Network Protocol
d) Python Shell

Ques30. What do you call the scope that hacker can use to break into a system?
Ans. a) Principle of least privilege
b) Defence in depth
c) Attack surface
d) None of the above

Ques31. Which of the following plateform is used for the safety and protection of information in the cloud?
Ans.
a) Cloud workload protection platefor
b) AWS

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c) cloud security protocols
d) one Drive

Ques32. What is a private key?
Ans. a) A key on your key chain
b) A key given to the public
c) A key NOT to be given to the public
d) A key that opens a secret door

Ques33.The component of an Expert System is____.
Ans. a) Knowledge base
b) Inference Engine
c) User Interface
d) All of the above

Ques34. Brute force attacks are known as an___ key search.
Ans. a) Exhaustive b) Phising
c) Cryptographic d) None of these

Ques35. Which one not an element of IOT?
Ans. a) Security b) People
c) Process d) Things

Ques36. The main security challenge to overcome to make IOT services available at low cost is?
Ans. a) Open security
b) Scalability
c) Detachment
d) None of these

Ques37.Which of the following is considered an element of cyber security?
Ans. a) Network Security
b) Operational Security
c) Application Security
d) All of the Above

Ques38.Which protocol mostly used in Wi-fi Security?
Ans. a) WPS b) WPA
c) WPA2 d) Both b) and c)

Ques39. In system hacking, which of the following is the most crucial activity?
Ans. a) Information gathering
b) Covering tracks
c) Cracking passwords
d) None of the above

Ques40. Which service permits the changes to the IoT services?
Ans. a) Update
b) Registered service status
c) Enable from suspension
d) Enable

Ques41. Which of the given language is not commonly used for AI?
Ans. a) LISP b) Prolog
c) Python d) Perl

Ques42. Which are the Machine to Machine communication applications?
Ans. a) Environment monitoring
b) Civil protection and public safety
c) Supply chain management
d) All of the Above

Ques43. Which are the components of the M2M communication?
Ans. a) Device providers, ISPs
b) Service users
c) Platform and service provider
d) All of the above

Ques44. The M2M is___ based technology.
Ans. a) Software
b) Hardware
c) Both a and b

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d) None of the Above

Ques45. Which one is an example for M2M?

Ans. a) Remote Monitoring
b) Smart Cities
c) Smart Agriculture
d) All of the Above

Ques46. The future IoT trust infrastructures are based on which technology for business-critical interaction between devices without direct human interaction?

Ans. a) XML b) Blockchain
c) .Net d) All Above

Ques47. Which is the future application of IOT?

Ans. a) QoS in communication
b) Role of Green IOT system
c) Secure communication
d) Multimedia communication

Ques48. An AI agent perceives and acts upon the environment using

Ans. a) Sensors
b) perceiver
c) Actuators
d) Both a and c

Ques49. The term 'bot' comes from robot. An internet bot may also known as:

Ans. a) Web robot
b) www robot
c) Both (a) and (b)
d) None of these

Ques50. Which statement(s) are true about a brute force attack?

Ans.
a) Crack a password or username

b) Find a hidden web page
c) find the key used to encrypt a message
d) All of the above

Ques51. The poor security practices could include(s)

Ans.
a) No system hardening
b) No mechanism for updating software
c) Default or hardcoded passwords
d) All of the above

Ques52. Identify one of the types of the blockchain network.

Ans. a) Open block chain network
b) Constraint block chain network
c) Private block chain network
d) Restricted block chain network

Ques53. Benefits of Blockchain technology are:

Ans. a) No hidden fees
b) Security & speed
c) Fraud control & Access levels
d) All of the Above

Ques54. Which of the following is not a Blockchain component?

Ans. a) Ledger
b) Wallet
c) Certificate authority
d) Hash

Ques55. Where do you keep your cryptocurrency?

Ans. a) Wallet b) Bank Account
c) Floppy disk d) In your pocket

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Ques56. Which of the following is a type of cyber security?

Ans. a) Cloud Security
b) Network Security
c) Application Security
d) All of the above



Some Important Abbreviations:

1.	SQL	Structured Query Language
2.	DNS	Domain Name System
3.	PKI	Public Key Infrastructure
4.	MFA	Multi Factor Authentication
5.	UPnP	Universal Plug & Play Features
6.	WPA	Wi-Fi Protected Access
7.	WPA2	Wi-Fi Protected Access 2
8.	WPA3	Wi-Fi Protected Access 3
9.	DDOS	Distributed Denial of Service Attack
10.	DES	Data Encryption Standard
11.	MACs	Message Authentication Codes
12.	AI	Artificial Intelligence
13.	ML	Machine Learning
14.	IIOT	Internet of Intelligent Things
15.	NLP	Natural Language Processing
16.	STT	Speech to text
17.	ASI	Artificial Super Intelligence
18.	RPA	Robotics Process Automation





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