

1. Which is the benefit(s) of cloud from the perspective of a resource manager of any organization?
 - (a) Flexibility of work practices
 - (b) Access to automatic updates
 - (c) None of the mentioned options
 - (d) Both Flexibility of work practices and Access to automatic updates
2. Which of the following option is **incorrect** relationship between the characteristic of Cloud and its description?
 - (a) Rapid Elasticity: scale out and in quickly as per need
 - (b) Resource pooling: Multiple type of clients are provided service
 - (c) Measured Service: resource utilization is tracked and Rapid Elasticity: scale out and in quickly as per need
 - (d) Measured Service: resource utilization is tracked
3. Which of the following is the disadvantage of the Packet Filter Firewall?
 - (a) Stateless
 - (b) Cost
 - (c) Transparency
 - (d) Efficiency
4. Which of the following payment options is best suited for small businesses in cloud?
 - (a) Pay-per-use
 - (b) pay-as-you-go
 - (c) pay-and-use
 - (d) None of the mentioned options
5. Which of the following attacks focuses on breaking the cryptosystem?
 - (a) Brute-Force attacks
 - (b) Social Engineering attack
 - (c) Implementation attacks
 - (d) Classical Mathematical Attacks
6. Which of the following is/are **not** required to calculate the Message Authentication Code?
 - (a) Actual Message sent
 - (b) Symmetrical shared secret
 - (c) Packet number
 - (d) Hash value
7. Which of the following is true about the Distributed Coordination Function?
 1. It is a mandatory function used in CSMA/CA
 2. It is an optional function used by 802.11 MAC Sublayer
 3. It is used in distributed contention-based channel access
 4. It is used in centralized-free channel access
 - (a) 1 and 4
 - (b) 2 and 3
 - (c) 2 and 4
 - (d) 1 and 3
8. Which of the following statements is **not** true about cloud and data center?
 - (a) Cloud is better when it comes to economically maintaining data security
 - (b) Internal Management team is required to run the data center
 - (c) Cloud is better when it comes to maintaining data security
 - (d) Data center is better when it comes to maintaining data security
9. Map true (T) and false (F) for the following statements.

Statement I: Higher the network bandwidth, the better the quality of service of the network

Statement II: Higher the latency, better the quality of service of the network

Statement III: Lower the latency, better the quality of service of the network

Statement IV: Just-in-time (JIT) service is the notion required cloud elasticity either to provide more resources in the cloud or less

 - (a) F T F T
 - (b) T F T F
 - (c) T T F F
 - (d) T F T T
10. Which of the following is /are **not** the risks associated with SSH keys?
 - (a) SSH keys can be used to hide backdoors
 - (b) Vulnerable to active network – level attacks
 - (c) The keys can be kept offline
 - (d) Lack of provisioning, termination, and overnight processes
11. Which of the following options is correct based on the below statements?

Statement I: Wi-Fi Protected Access was introduced after increasingly noticeable vulnerabilities of the WEP standard.

Statement II: Wired Equivalent Privacy algorithm has a limit of 138-bit encryption key only

 - (a) Both statements are true and Statement II is the incorrect explanation of Statement I
 - (b) Statement I is true and Statement II is false
 - (c) Both statements are true and Statement II is the correct explanation of Statement I
 - (d) Both statements are false
12. Which of the following layer(s) of an OSI model include type of protocol in their?
 - (a) Layer
 - (b) All except Layer 4
 - (c) Layer 2
 - (d) Layer 4
13. Your sister wants to become an expert in animation and seeks your advice on what software would be appropriate for her to master. Which of the following would you not suggest for animation?
 - (a) Flash
 - (b) 3D5 MAX
 - (c) MS Paint
 - (d) Maya

14. Karen wishes to ensure that other users of her computer are not able to track websites she has browsed. Which of the following should she do in the browser settings?
- (a) Shut down and restart the computer
 - (b) Change all passwords
 - (c) Make sure the browser windows are closed
 - (d) Clear history
15. Which of the following fields of IEEE 802.11 frame is the 4-byte field that consists of error detection information?
- (a) Frame Check Sequence
 - (b) Protocol Version
 - (c) Frame Control
 - (d) Protected Frame
16. While creating a PowerPoint presentation you are planning to add references in footnotes. Under which of the following you find the Header & Footer option?
- (a) Illustrations
 - (b) Text
 - (c) Add-ins
 - (d) Images
17. Which of the following encryption algorithm does **not** operate in bit by bit fashion?
- (a) Rivest Cipher 4
 - (b) Rivest Cipher 5
 - (c) Data Encryption Standard
 - (d) Rivest Cipher 5 & Data Encryption Standard
18. Which of the following options is true about the statements given below?
- Statement I: Cloud increases the speed of computing by increasing the processing power and making things simpler.
- Statement II: Software integration never occurs automatically in the cloud.
- Statement III: DDOS attack on your talent could never affect the performance of your shared resource.
- Statement IV: In case your organization surpasses the given allowance, the additional charges are always less.
- (a) All Statements are false
 - (b) Except Statement I, all are false
 - (c) All Statements are true
 - (d) Only Statement I and II are true
19. How many words would be required to change a plaintext piece of data into encrypted data in AES-256?
- (a) 31
 - (b) 52
 - (c) 60
 - (d) 58
20. Which of the following attacks depends on the human factor?
- (a) Classical Mathematical Attacks
 - (b) Brute-Force attacks
 - (c) Implementation attacks
 - (d) Social Engineering attack
21. Which of the following subfields of IEEE 802.11 frame control is the single bit field that indicates the frame security?
- (a) Subtype
 - (b) Frame Control
 - (c) Protocol Version
 - (d) Protected Frame
22. Which of the following characteristic of Cloud allows the organization to never get out of resources?
- (a) Rapid Elasticity
 - (b) Measured Service
 - (c) Resource pooling
 - (d) On-demand self-services
23. If a binary string, "101011" is encrypted to 101111 by using CBC mode with the binary initialization vector 11, then what will be the encrypted value for 110110?
- (a) 110100
 - (b) 101011
 - (c) 11010
 - (d) 110011
24. Which of the following allows any business to reduce time delays and reduce energy consumption as well?
- (a) Cloud
 - (b) None of the mentioned quotes
 - (c) Data Center
 - (d) Both Data Center and Cloud
25. Which of the following cloud service provider the following Computations services?
- 1. Elastic Container Service
 - 2. Elastic Load Balancing
 - 3. Fargate
 - 4. Batch
- (a) Google Cloud
 - (b) Oracle
 - (c) AWS
 - (d) Azure
26. Which out of the following keys is used to derive the Pairwise Master key?
- (a) Authentication, Accounting and Authorization Key
 - (b) Pre-shared key
 - (c) Group Master Key
 - (d) Pair-wise Transient key
27. Assume that you have configured wireless access to the Internet using appropriate security. Which two items should be configured on the wireless client?
- (a) RF Channel, BSS
 - (b) WEP and Passphrase
 - (c) PSK, Manual SSID
 - (d) SSID, IP address
28. In Zone based firewall, three zones are created (inside, outside and DMZ). Zone pairs have to be created for communication zones to make the two zones to communicate. You create a zone pair "inside to outside". Which command should be followed to create the zone pair?
- (a) Ensure that Class-map policy and the Policy-map are not interacting with each other Create Zone pair to allow traffic in one direction
 - (b) Assign Class-map to the Policy-map Create Zone pair to allow traffic in both direction
 - (c) Assign Class-map to the Policy-map Create a Zone pair to allow traffic in one direction
 - (d) Ensure that Class map-policy and the Policy-map are not interacting with each other Create Zone pair to allow traffic in both directions

29. Consider the following use case in a cloud-
A user of Gmail, Facebook, or LinkedIn accesses the application and their data through any browser on any device. The user does not want to keep up with anything more than a password, their data is stored and managed in the cloud. Here, the user has no idea about how the underlying architecture works. If they access the Internet, they can access their data.
Which of the following options is the requirement of this use case?
- (a) The cloud service should authenticate the end user
 - (b) Although service level agreements for end users will usually be much simpler than those for enterprises, cloud vendors should be clear about what guarantees of service they provide.
 - (c) Depending on the kind of data the enterprise is managing on the user's behalf, there can be logout restrictions on the location of the physical server where the data is stored.
 - (d) Access to the cloud service should not require a particular platform or technology
30. Two servers are dedicated to payroll processing, a complex and time-consuming process. The organization decides to see how practical it will be to run the payroll process in the cloud. The existing payroll system is architected as a distributed application. Which of the following statements about the probability of the application. Which of the following statements about the portability of the application is correct if it is on Fedora and Java 7?
- (a) It will run without changes on any cloud providers platform that supports Fedora
 - (b) We need to change the different cloud storage provider
 - (c) We need to change the different cloud middle ware provider
 - (d) Changing the application to use a cloud database easy. If it involves moving to a cloud database that does not support the relational model.
31. Your customer is a large medical organization who is considering using Microsoft virtualization. Their main concern is that they have some legacy applications that are conflicting with the current operating systems. What kind of virtualization will help them overcome this challenge?
- (a) Presentation Virtualization
 - (b) Application virtualization
 - (c) Server Virtualization
 - (d) Desktop Virtualization
32. Salesforce offers customers the capacity of obtaining a customer relationship management (CRM) process from the cloud. The customer has access to all their customer data from any location. The customer has access to all their customer data from any location. Like email, CRM is a clear and comprehensible process. So, which type of model can it be easily offered in?
- (a) SAAS
 - (b) IaaS
 - (c) PAAS
 - (d) None of the given options
33. The method to crack RSA encryption is to begin to derive the two prime numbers that are used in the RSA PKI mathematical process. Which of the following options can be used to find the two numbers, 'A' and 'B' to derive the private key?
- (a) Factorization
 - (b) Prime detection
 - (c) Hashtag
 - (d) Brute-force
34. The filtering service in inbound response for DNS is sometimes difficult as the hostname to IP address is received from outside network. As a result, it becomes very difficult to take any security, related decisions. Which of the following solutions is incorrect in the context of filtering the DNS?
- (a) Use a DNS proxy that diverts internal information to the internal DNS server
 - (b) Use a DNS proxy that blocks the inbound responses
 - (c) Keep inbound queries to DNS
 - (d) Use DNS proxy that diverts queries for external information to the internal DNS server
35. Which of the following file extensions is used for email storage in Outlook?
- .Pst
 - .ost
 - .msg
 - .oft
 - (a) Pst
 - (b) Msg
 - msg
 - ost
 - (c) pst
 - (d) pst
 - oft
 - ost
36. Which of the following SSH Command is used to copy a file?
- (a) touch filename Dir 1
 - (b) cp fileName /directory/path/destination
 - (c) rm filename
 - (d) mv fileName directory/path/destination
37. Which of the following could not be valid email address?
- (a) Edward.culeen@yahoo.com
 - (b) Edward.cullen@yahoo.com
 - (c) Edwardcullen@yahoo.com
 - (d) Ecullen@yahoo.com
38. Which of the following clouds service provider should be preferred if most of your data is of Binary large objects?
- (a) Azure
 - (b) Oracle
 - (c) AWS
 - (d) Google cloud platform

39. Which of the following is/are the correct option(s) in which of the intrusion detection system help?
- (a) resetting the connection to save the IP address from any blockage.
 - (b) Correction of cyclic redundancy errors
 - (c) Sending an alarm against any malicious activity in the network
 - (d) All of the mentioned options.
40. Map true (T) and false (F) for the following statement:
Statement I: Google cloud has a data lake storage which is useful for Big data applications.
Statement II: Google cloud does not have a backup and archive services.
Statement III: Google cloud has two SQL- based options: cloud SQL and cloud spanner.
Statement IV: AWS provides simple storage services, snowball Edge, Snowmobile as storage service.
- (a) F T F F (b) T F F T
 - (c) T F T F (d) D T T T
41. Which of the following option is correct based on the below statements?
Statement I: Google cloud provides cloud speech API, video Intelligence, video intelligence and Natural Languages
Statement II: It offers IoT and serverless services, but both are still in beta previews.
- (a) Statement I is true and statement II is false
 - (b) Both statements are true and statement II is the incorrect explanations of statement I
 - (c) Both statements are false
 - (d) Both statements are true and statement II is the correct explanations of statement I
42. What will be the sum of the port numbers of Telnet and Internet Relay chat?
- (a) 200 (b) 217 (c) 213 (d) 221
43. Which cryptographic protocol is used to prevent attacks on data integrity by TKIP?
- (a) Point to point protocol
 - (b) Message Integrity Code
 - (c) Secure Shell
 - (d) Internet key Exchange
44. Which of the following types of cryptography's strength depends on the number of key bites?
- (a) Asymmetric key cryptography
 - (b) Hashing
 - (c) Symmetric key cryptography
 - (d) None of the mentioned options
45. Which of the following is the second stage of establishing an SSH SESSION?
- (a) Agree upon encryption to protect future communication
 - (b) Establish encryption to protect future communication
 - (c) Authenticate the user
 - (d) Agree upon encryption and establish encryption to protect future communication
46. Which of the following statements is true about cloud and data center?
- 1. In cloud, owner is responsible for downtime and repairs
 - 2. In Data center, owner is responsible for downtime and repairs
- Choose the correct answer from the options given below.
- (a) Only 2 (b) Both 1 and 2
 - (c) Neither 1 and 2 (d) Only 1
47. Which of the following attacks treats the encryption algorithm as black box?
- (a) Implementation attacks
 - (b) Social Engineering attack
 - (c) Brute-force attacks
 - (d) Analytical Attacks
48. Which of the following encryption algorithm is based on the RC4 algorithm and 24 bits bits of initialization vector?
- (a) None of the mentioned options
 - (b) WEP
 - (c) WPA 2
 - (d) WPA
49. Which of the following is/are the difference between the TKIP and WEP?
- (a) All of the mentioned options
 - (b) TKIP uses shorter key and IV lengths
 - (c) TKIP guard against integrity attacks
 - (d) TKIP uses Rivest Cipher 4 algorithm
50. Which of the following are present in the message integrity Code's tagging function to result a particular tag?
- (a) Bit swapping
 - (b) XOR operation
 - (c) Bit addition
 - (d) All of the mentioned options
51. Which of the following are the least expensive type of firewall?
- (a) Packet Filter Firewall
 - (b) Stateful inspection
 - (c) Proxy Firewalls
 - (d) Cloud firewalls

52. What is the size of the authentication key of the cryptographic protocol which is used to prevent attacks on data integrity by TK...
- (a) 32-bits (b) 128-bits
(c) 256-bits (d) 64-bits
53. Consider a situation where you have to choose between the major cloud service providers. Which would you choose if you need a cloud service which focus on Kubernetes and has a simplest UI?
- (a) Google cloud (b) AWS
(c) Oracle (d) Azure
54. Which of the following attacks treats the encryption algorithm as a black box?
- (a) Implementation attacks
(b) Social Engineering attack
(c) Brute-force attacks
(d) Analytical Attacks
55. What is the primary work of SSH in hashing encryption and decryption?
- (a) Ensure that the received message text is intact and unmodified
(b) Authenticate a client to a server
(c) Packet integrity
(d) Utilize a variety of different symmetrical cipher systems
56. Which of the following is the incorrect representation of the layer number and name of an OST model?
- (a) Layer 2 is the data-link layer
(b) Layer 4 is the session layer
(c) Layer 3 is the network layer
(d) Layer 6 is the presentation layer
57. Which of the following is the benefit of Enterprise data warehouse?
- (a) Houses data for individual business units
(b) None of the mentioned options
(c) Data is accessible in one place
(d) Scattered datasets for data prevention.
58. Which of the following option is the incorrect relationship between the characteristic of the cloud and its description?
- (a) Rapid Elasticity: more usage of resources at regular time period.
(b) All of the mentioned options
(c) Measured Services: Multiple clients are provided service
59. What is difference between metamorphic and polymorphic viruses?
- (a) Metamorphic virus mutates all its body
(b) Metamorphic virus mutates the variable only
(c) None of the mentioned options
(d) Metamorphic virus mutates the decryptor loop
60. Which of the following type of DES key causes the encryption to become self-inverting?
- (a) Key which consists of alternating 1's and 0's
(b) Key which consists of a pattern of two 1's and one 0
(c) Key which consists of a pattern of two 0's and one 1
(d) Key which consists of a pattern of two 0's and two 1's
61. Which of the following types of encryption cannot be used for decrypting bulk message?
- (a) Asymmetric Key cryptography
(b) All of the mentioned options
(c) symmetric key cryptography
(d) Hashing
62. Which of the following encryption algorithms does not operate on the fixed-size block of data?
- (a) Rivest cipher 4
(b) Advanced Encryption Standard
(c) Data Encryption Standard
(d) Rivest cipher 5
63. Which of the following characteristic of cloud allows you to make out of the effective use of resources?
- (a) Resource pooling
(b) Measured service
(c) On-demand self-services
(d) Rapid Elasticity
64. Which of the following statements is true about the cloud and data center?
- (a) Overall, the cloud is better when it comes to maintaining data security
(b) Data center is better when it comes to economically maintaining data security
(c) Internal management team is not required to run the data center
(d) Data center is better when it comes to maintaining data security
65. How many rounds of processing are there to change a plaintext piece of data into encrypted data in AES-192?
- (a) 12 (b) 8 (c) 10 (d) 14
66. Which WLAN security is based on stream cipher encryption algorithm and uses 16-byte encryption key?
- (a) Wired equivalent Privacy (WEP)
(b) IEEE802.1x
(c) Service Set Identifier
(d) Temporal Key Integrity Protocol