



**Unit 1: Software Process And Project Metrics, Analysis Concepts And Principles**

Q:1) Which of the following is not a diagram studied in Requirement Analysis?

Sol: description here

- A:) Use Cases
- B:) Entity Relationship Diagram
- C:) State Transition Diagram
- D:) Activity Diagram

Correct: D

Q:2) How many feasibility studies are conducted in Requirement Analysis?

Sol: description here

- A:) Two
- B:) Three
- C:) Four
- D:) None of the mentioned

Correct: B

Q:3) Which of the following is not a direct measure of SE process?

Sol: description here

- A:) Efficiency
- B:) Cost
- C:) Effort Applied
- D:) All of the mentioned



Correct:A

Q:4) Requirements Analysis is an Iterative Process.

Sol: description here

A:) True

B:) False

Correct:A

Q:5) Prototyping in software process may involve \_\_\_\_\_

Sol: description here

A:) throw - away prototyping

B:) evolutionary

C:) Both a and b options

D:) None of these

Correct:C

Q:6) Which of the following is the task of project indicators:

Sol: description here

A:) help in assessment of status of on going project

B:) Track potential risk

C:) help in assessment of status of on-going project & track potential risk

D:) none of the mentioned



Correct:C

Q:7)Which of the following does not affect the software quality and organizational performance?

Sol: description here

- A:) Market
- B:) Product
- C:) Technology
- D:) People

Correct:A

Q:8)Which of the following is an indirect measure of product?

Sol: description here

- A:) Quality
- B:) Complexity
- C:) Reliability
- D:) All of the Mentioned

Correct:D

Q:9) Which of the following is not a direct measure of SE process?

Sol: description here

- A:) Efficiency



- B:) Cost
- C:) Effort Applied
- D:) All of the mentioned

Correct:A

Q:10)Which of the following is an indirect measure of product?

Sol: description here

- A:) Quality
- B:) Complexity
- C:) Reliability
- D:) All of the Mentioned

Correct:D

Q:11)In size oriented metrics, metrics are developed based on the \_\_\_\_\_

Sol: description here

- A:) number of Functions
- B:) number of user inputs
- C:) number of lines of code
- D:) amount of memory usage

Correct:C

Q:12)Which of the following is not an information domain required for determining function point in FPA ?

Sol: description here

- A:) Number of user Input
- B:) Number of user Inquiries
- C:) Number of external Interfaces



D:) Number of errors

Correct:D

Q:13) Usability can be measured in terms of:

Sol: description here

A:) Intellectual skill to learn the system

B:) Time required to become moderately efficient in system usage

C:) Net increase in productivity

D:) All of the mentioned

Correct:D

Q:14) A graphical technique for finding if changes and variation in metrics data are meaningful is known as

Sol: description here

A:) DRE (Defect Removal Efficiency)

B:) Function points analysis

C:) Control Chart

D:) All of the mentioned

Correct:C

Q:15) Defects removal efficiency (DRE) depends on:

Sol: description here

A:) E – errors found before software delivery

B:) D – defects found after delivery to user



C:) Both E and D

D:) Varies with project

Correct:C

Q:16)Which of the following is not included in failure costs?

Sol: description here

A:) rework

B:) repair

C:) failure mode analysis

D:) none of the mentioned

Correct:D

Q:17)hich requirements are the foundation from which quality is measured?

Sol: description here

A:) Hardware

B:) Software

C:) Programmers

D:) None of the mentioned

Correct:B

Q:18) Which of the following is not a SQA plan for a project?

Sol: description here



- A:) evaluations to be performed
- B:) amount of technical work
- C:) audits and reviews to be performed
- D:) documents to be produced by the SQA group

Correct:B

Q:19) Degree to which design specifications are followed in manufacturing the product is called

Sol: description here

- A:) Quality Control
- B:) Quality of conformance
- C:) Quality Assurance
- D:) None of the mentioned

Correct:B

Q:20)Which of the following is not included in External failure costs?

Sol: description here

- A:) testing
- B:) help line support
- C:) warranty work
- D:) complaint resolution

Correct:A



Q:21) Which of the following is not an appraisal cost in SQA?

- A:) inter-process inspection
- B:) maintenance
- C:) quality planning
- D:) testing

Correct:C

Q:22) The primary objective of formal technical reviews is to find \_\_\_\_\_ during the process so that they do not become defects after release of the software.

Sol: description here

- A:) errors
- B:) equivalent faults
- C:) failure cause
- D:) none of the mentioned

Correct:A

Q:23) What is not included in prevention costs?

Sol: description here

- A:) Quality planning
- B:) Formal technical reviews
- C:) Test equipment





D:) Equipment calibration and maintenance

Correct:D

Q:24)Software quality assurance consists of the auditing and reporting functions of management.

Sol: description here

A:) True

B:) False

Correct:A

Q:25)Who identifies, documents, and verifies that corrections have been made to the software?

Sol: description here

A:) Project manager

B:) Project team

C:) SQA group

D:) All of the mentioned

Correct:C

Q:26)Which of the following is not a metric for design model?

Sol: description here

A:) Interface design metrics

B:) Component-level metrics

C:) Architectural metrics

D:) Complexity metrics



Correct:D

Q:27)Statement and branch coverage metrics are part of

Sol: description here

- A:) Analysis Model
- B:) Testing
- C:) Design Model
- D:) Source Code

Correct:B

Q:28)Function Points in software engineering was first proposed by

Sol: description here

- A:) Booch
- B:) Boehm
- C:) Albrecht
- D:) Jacobson

Correct:C

Q:29)How many Information Domain Values are used for Function Point Computation?

Sol: description here

- A:) three
- B:) four
- C:) five
- D:) six



Correct:C

Q:30) SMI stands for

Sol: description here

- A:) Software Mature Indicator
- B:) Software Maturity Index
- C:) Software Mature Index
- D:) Software Maturity Indicator

Correct:B

Q:31)  $SMI = [Mt - (Fa + Fc + Fd)] / Mt$ . Here  $Mt$  is the number of modules

Sol: description here

- A:) in the current release
- B:) in the current release that have been changed
- C:) from the preceding release that were deleted in the current release
- D:) none of the mentioned

Correct:A

Q:32)The amount of time that the software is available for use is known as

Sol: description here

- A:) Reliability
- B:) Usability



- C:) Efficiency
- D:) Functionality

Correct:D

Q:33)Usability in metric analysis is defined as the degree to which the software

Sol: description here

- A:) stated needs
- B:) is easy to use
- C:) makes optimal use of system resources
- D:) none of the mentioned

Correct:B

Q:34) \_\_\_\_\_ model consists of the particular types of services that you can access on a cloud computing platform.

Sol: description here

- A:) Service
- B:) Deployment
- C:) Application
- D:) None of the mentioned

Correct:A

Q:35)Point out the correct statement.

Sol: description here

- A:) The use of the word “cloud” makes reference to the two essential concepts



- B:) Cloud computing abstracts systems by pooling and sharing resources
- C:) cloud computing is nothing more than the Internet
- D:) All of the mentioned

Correct:B

Q:36)\_\_\_\_\_ refers to the location and management of the cloud's infrastructure.

Sol: description here

- A:) Service
- B:) Deployment
- C:) Application
- D:) None of the mentioned

Correct:B

Q:37)Which of the following is the deployment model?

Sol: description here

- A:) public
- B:) private
- C:) hybrid
- D:) all of the mentioned

Correct:D

Q:38)Point out the wrong statement.

Sol: description here



- A:) Cloud Computing has two distinct sets of models
- B:) Amazon has built a worldwide network of datacenters to service its search engine
- C:) Azure enables .NET Framework applications to run over the Internet
- D:) None of the mentioned

Correct:B

Q:39)Which of the following is best known service model?

Sol: description here

- A:) SaaS
- B:) IaaS
- C:) PaaS
- D:) All of the mentioned

Correct:D

Q:40)The \_\_\_\_\_ model originally did not require a cloud to use virtualization to pool resources.

Sol: description here

- A:) NEFT
- B:) NIST
- C:) NIT
- D:) All of the mentioned



Correct:B

Q:41)A distributed database has which of the following advantages over a centralized database?

Sol: description here

- A:) Software cost
- B:) Software complexity
- C:) Slow Response
- D:) Modular growth

Correct:D

Q:42)An autonomous homogenous environment is which of the following?

Sol: description here

- A:) The same DBMS is at each node and each DBMS works independently.
- B:) The same DBMS is at each node and a central DBMS coordinates database access.
- C:) A different DBMS is at each node and each DBMS works independently.
- D:) A different DBMS is at each node and a central DBMS coordinates database access.

Correct:A

Q:43)A transaction manager is which of the following?

Sol: description here

- A:) Maintains a log of transactions
- B:) Maintains before and after database images
- C:) Maintains appropriate concurrency control
- D:) All of the above.



Correct:D

Q:44) Let us suppose that in a distributed database, during a transaction T1, one of the sites, say S1, is failed. When recovers, the site S1 has to check its log file (log based recovery) to decide the next move on the transaction T1. If the log contains a <commit T> record, what the site S1 has to do?

Sol: description here

- A:) Need not do anything
- B:) Perform Undo
- C:) Perform Redo
- D:) Abort the transaction

Correct:B

Q:45) Global Wait-for graph is used for \_\_\_\_\_ in Distributed database.

Sol: description here

- A:) Handling concurrency control
- B:) Handling failures
- C:) Handling deadlock
- D:) None of the above

Correct:C

Q:46) In Distributed database, \_\_\_\_\_ are the transactions for which a <ready T> log is found in the log file, but neither a <commit T> log nor an <abort T> log is found.





Sol: description here

- A:) In-doubt transactions
- B:) Serialized transactions
- C:) Cascadeless transactions
- D:) Distributed transactions

Correct:A

Q:47)While using commit protocols for handling atomicity issues, the distributed database system may enter into a situation called Blocking problem. Which of the following commit protocols can avoid Blocking problem?

Sol: description here

- A:) Two-phase commit protocol
- B:) Three-phase commit protocol
- C:) Both of the above
- D:) None of the above

Correct:B

Q:48) Which of the following concurrency control protocol is suitable for an application where frequency of read operation is much greater than that of write operation?

Sol: description here

- A:) Majority protocol
- B:) Quorum-consensus protocol



- C:) Biased protocol
- D:) Single lock protocol

Correct:C

Q:49)Which of the following parallel database architectures is/are mainly used by distributed database system?

Sol: description here

- A:) Shared Memory
- B:) Shared Disk
- C:) Shared Nothing
- D:) Hierarchical

Correct:C

Q:50)Which of the following is not a promise of distributed database?

Sol: description here

- A:) Network Transparency
- B:) Replication Transparency
- C:) Fragmentation Transparency
- D:) None of the above

Correct:D



**UNIT:2 Distributed Databases**

Q:51) A data warehouse is which of the following?

Sol: description here

- A:) Can be updated by end users.
- B:) Contains numerous naming conventions and formats.
- C:) Organized around important subject areas.
- D:) Contains only current data.

Correct:C

Q:52)Data transformation includes which of the following?

Sol: description here

- A:) A process to change data from a detailed level to a summary level
- B:) A process to change data from a summary level to a detailed level
- C:) Joining data from one source into various sources of data
- D:) Separating data from one source into various sources of data

Correct:A

Q:53)A multifield transformation does which of the following?

Sol: description here

- A:) Converts data from one field into multiple fields
- B:) Converts data from multiple fields into one field



C:) Converts data from multiple fields into multiple fields

D:) All of the above

Correct:D

Q:54) Which of the following features usually applies to data in a data warehouse?

Sol: description here

A:) Data are often deleted

B:) Most applications consist of transactions

C:) Data are rarely deleted

D:) Relatively few records are processed by applications

Correct:C

Q:55) Which of the following statement is true?

Sol: description here

A:) The data warehouse consists of data marts and operational data

B:) The data warehouse is used as a source for the operational data

C:) The operational data are used as a source for the data warehouse

D:) All of the above

Correct:C

Q:56) The following is true of three-tier data warehouses:

Sol: description here

A:) Once created, the data marts will keep on being updated from the data warehouse at periodic times



- B:) Once created; the data marts will directly receive their new data from the operational databases
- C:) The data marts are different groups of tables in the data warehouse
- D:) A data mart becomes a data warehouse when it reaches a critical size

Correct:A

Q:57)The following technology is not well-suited for data mining:

Sol: description here

- A:) Expert system technology
- B:) Data visualization
- C:) Technology limited to specific data types such as numeric data types
- D:) Parallel architecture

Correct:C

Q:58)What is true of the multidimensional model?

Sol: description here

- A:) It typically requires less disk storage
- B:) It typically requires more disk storage
- C:) Typical business queries requiring aggregate functions take more time
- D:) Increasing the size of a dimension is difficult

Correct:B

Q:59)The extract process is which of the following?

Sol: description here

- A:) Capturing all of the data contained in various operational systems
- B:) Capturing a subset of the data contained in various operational systems
- C:) Capturing all of the data contained in various decision support systems



D:) Capturing a subset of the data contained in various decision support systems

Correct:B

Q:60) A data warehouse is which of the following?

Sol: description here

- A:) Can be updated by end users.
- B:) Contains numerous naming conventions and formats.
- C:) Organized around important subject areas.
- D:) Contains only current data.

Correct:C

Q:61)All sites in a distributed database commit at exactly the same instant. TRUE/FALSE

Sol: description here

- A:) TRUE
- B:) FALSE

Correct:B

Q:62)The real use of the Two-phase commit protocol is \_\_\_\_\_

Sol: description here

- A:) Deadlock will not occur
- B:) Concurrency control can be avoided
- C:) Atomicity, i.e, all-or-nothing commits at all sites
- D:) None of the above

Correct:C

Q:63)Read one, write all available protocol is used to increase \_\_\_\_\_ in a distributed database system.



Sol: description here

- A:) Availability
- B:) Robustness
- C:) Both Availability and Robustness
- D:) Neither Availability nor Robustness

Correct:C

Q:64)What is the size of the key in the SDES algorithm?

Sol: description here

- A:) 24 bits
- B:) 16 bits
- C:) 20 bits
- D:) 10 bits

Correct:D

Q:65)Assume input 10-bit key, K: 1010000010 for the SDES algorithm. What is K1?

Sol: description here

- A:) 10100100
- B:) 01011011
- C:) 01101000
- D:) 10100111

Correct:A

Q:66)Assume input 10-bit key, K: 1010000010 for the SDES algorithm. What is K2?

Sol: description here



A:) 10100111

B:) 01000011

C:) 00100100

D:) 01011010

Correct:B

Q:67)The Plaintext for the Ciphertext 00100010, given that the key is 1111111111 is

Sol: description here

A:) 01100111

B:) 00001010

C:) 01001000

D:) 01001100

Correct:D

Q:68)Assume input 10-bit key, K: 0010010111 for the SDES algorithm. What is K1?

Sol: description here

A:) 00101111

B:) 01011011

C:) 01101000

D:) 10100111

Correct:A

Q:69)The Plaintext for the Ciphertext 00001111, given that the key is 1111111111 is

Sol: description here

A:) 01100111





B:) 0001010

C:) 11111111

D:) 01101101

Correct:D

Q:70)The Plaintext for the Ciphertext 11110000, given that the key is 0000000000 is

Sol: description here

A:) 01100111

B:) 00000000

C:) 01001000

D:) 01101100

Correct:B

Q:71)The process of transforming plain text into unreadable text.

Sol: description here

A:) Decryption

B:) Encryption

C:) Network Security

D:) Information Hiding

Correct:B

Q:72) An algorithm used in encryption is referred to as cipher.

Sol: description here

A:) True

B:) False

Correct:A



Q:73) A process of making the encrypted text readable again.

Sol: description here

- A:) Decryption
- B:) Encryption
- C:) Network Security
- D:) Information Hiding

Correct:A

Q:74) A cipher in which the order is not preserved.

Sol: description here

- A:) Polyalphabetic substitution based
- B:) Transposition-based
- C:) Substitution based
- D:) Public key based

Correct:B

Q:75) Study of creating a d using encryption and decryption techniques.

Sol: description here

- A:) Cipher
- B:) Cryptography
- C:) Encryption
- D:) Decryption

Correct:B

Q:76) These ciphers replace a character or characters with a different character or characters, based on some key.



Sol: description here

- A:) Polyalphabetic substitution based
- B:) Transposition-based
- C:) Substitution based
- D:) Mono alphabetic substitution based

Correct:D

Q:77)Encryption is the study of creating and using decryption techniques.

Sol: description here

- A:) True
- B:) False

Correct:B

Q:78) An encryption technique with 2 keys is \_\_\_\_\_

Sol: description here

- A:) Monoalphabetic Cipher
- B:) Cryptography
- C:) Private key cryptography
- D:) Public key cryptography

Correct:D

Q:79) A type of cipher that uses multiple alphabetic strings.

Sol: description here



- A:) Substitution based
- B:) Transposition-based
- C:) Polyalphabetic substitution based
- D:) Mono alphabetic substitution based

Correct:C

Q:80)Encryption is the study of creating and using decryption techniques.

Sol: description here

- A:) True
- B:) False

Correct:B

Q:81)These ciphers replace a character or characters with a different character or characters, based on some key.

Sol: description here

- A:) Polyalphabetic substitution based
- B:) Transposition-based
- C:) Substitution based
- D:) Mono alphabetic substitution based

Correct:D

Q:82) The keys used in cryptography are

Sol: description here

- A:) secret key
- B:) private key



- C:) public key
- D:) All of them

Correct:D

Q:83)In symmetric-key cryptography, the key locks and unlocks the box is

Sol: description here

- A:) same
- B:) shared
- C:) private
- D:) public

Correct:A

Q:84)Symmetric-key cryptography started thousands of years ago when people needed to exchange

Sol: description here

- A:) Files
- B:) Packets
- C:) Secrets
- D:) Transmission

Correct:C

Q:85) Cryptography, a word with Greek origins, means

Sol: description here

- A:) Corrupting Data
- B:) Secret Writing
- C:) Open Writing
- D:) Closed Writing



Correct:B

Q:86) A transposition cipher reorders (permutes) symbols in a

Sol: description here

- A:) block of packets
- B:) block of slots
- C:) block of signals
- D:) block of symbols

Correct:D

Q:87) The Advanced Encryption Standard (AES) was designed

Sol: description here

- A:) National Institute of Standards and Technology
- B:) IBM
- C:) HP
- D:) Intel

Correct:A

Q:88)The Cryptography can provide

Sol: description here

- A:) entity authentication
- B:) nonrepudiation of messages
- C:) confidentiality
- D:) All of them

Correct:A

Q:89)The Data Encryption Standard (DES) was designed by



Sol: description here

- A:) Microsoft
- B:) Apple
- C:) IBM
- D:) None

Correct:D

Q:90) The process of transforming plain text to unreadable text.

Sol: description here

- A:) Decryption
- B:) Encryption
- C:) Network Security
- D:) Information Hiding

Correct:A

Q:91)\_\_\_\_\_ model attempts to categorize a cloud network based on four dimensional factors.

Sol: description here

- A:) Cloud Square
- B:) Cloud Service
- C:) Cloud Cube
- D:) All of the mentioned

Correct:C

Q:92)How many types of dimensions exists in Cloud Cube Model?

Sol: description here



A:) 1

B:) 2

C:) 3

D:) 4

Correct:D

Q:93) Which of the following dimension is related to organization's boundaries?

Sol: description here

A:) Physical location of data

B:) Ownership

C:) Security boundary

D:) All of the mentioned

Correct:A

Q:94) Which of the following is related to the service provided by Cloud?

Sol: description here

A:) Sourcing

B:) Ownership

C:) Reliability

D:) AaaS

Correct:A

Q:95) Which of the following was one of the top 5 cloud applications in 2010?

Sol: description here

A:) Cloud backup





- B:) Web applications
- C:) Business applications
- D:) All of the mentioned

Correct:D

Q:96) Point out the correct statement.

Sol: description here

- A:) Google's cloud includes perhaps some 10 data centers worldwide
- B:) Flipkart.com's infrastructure was built to support elastic demand so the system could accommodate peak traffic
- C:) Data centers have been sited to optimize the overall system latency
- D:) All of the mentioned

Correct:C

Q:97) Which of the following benefit is related to creates resources that are pooled together in a system that supports multi-tenant usage?

Sol: description here

- A:) On-demand self-service
- B:) Broad network access
- C:) Resource pooling
- D:) All of the mentioned

Correct:A

Q:98) The \_\_\_\_\_ is something that you can obtain under contract from your vendor.

Sol: description here

- A:) PoS
- B:) QoS



C:) SoS

D:) All of the mentioned

Correct:B

Q:99) Point out the wrong statement.

Sol: description here

A:) Internet consumes roughly 1 percent of the world's total power

B:) The cost advantages of cloud computing have enabled new software vendors to create productivity applications

C:) A client can provision computer resources without the need for interaction with cloud service provider personnel

D:) None of the mentioned

Correct:A

Q:100)All cloud computing applications suffer from the inherent \_\_\_\_\_ that is intrinsic in their WAN connectivity.

Sol: description here

A:) propagation

B:) latency

C:) noise

D:) all of the mentioned

Correct:B



**Unit :3 Data Warehouse**

Q:101) Cloud computing is a \_\_\_\_\_ system and it is necessarily unidirectional in nature.

Sol: description here

- A:) stateless
- B:) stateful
- C:) reliable
- D:) all of the mentioned

Correct:A

Q:102) Which of the following is the most important area of concern in cloud computing?

Sol: description here

- A:) Security
- B:) Storage
- C:) Scalability
- D:) All of the mentioned

Correct:A

Q:103) You can't count on a cloud provider maintaining your \_\_\_\_\_ in the face of government actions.

Sol: description here

- A:) scalability
- B:) reliability
- C:) privacy
- D:) none of the mentioned

Correct:C



Q:104) Which of the following architectural standards is working with cloud computing industry?

Sol: description here

- A:) Service-oriented architecture
- B:) Standardized Web services
- C:) Web-application frameworks
- D:) All of the mentioned

Correct:A

Q:105) The information that gets transformed in encryption is \_\_\_\_\_

Sol: description here

- A:) Plain text
- B:) Parallel text
- C:) Encrypted text
- D:) Decrypted text

Correct:A

Q:106) Which is not an objective of network security?

Sol: description here

- A:) Identification
- B:) Authentication
- C:) Access control
- D:) Lock

Correct:D



Q:107) Which of these is a part of network identification?

Sol: description here

- A:) UserID
- B:) Password
- C:) OTP
- D:) Fingerprint

Correct:A

Q:108) The process of verifying the identity of a user.

Sol: description here

- A:) Authentication
- B:) Identification
- C:) Validation
- D:) Verification

Correct:A

Q:109) An algorithm in encryption is called \_\_\_\_\_

Sol: description here

- A:) Algorithm
- B:) Procedure
- C:) Cipher
- D:) Module

Correct:C

Q:110) The information that gets transformed in encryption is \_\_\_\_\_

Sol: description here



- A:) Plain text
- B:) Parallel text
- C:) Encrypted text
- D:) Decrypted text

Correct:C

Q:112) The field that covers a variety of computer networks, both public and private, that are used in everyday jobs.

Sol: description here

- A:) Artificial Intelligence
- B:) ML
- C:) Network Security
- D:) IT

Correct:C

Q:113) Network Security provides authentication and access control for resources.

Sol: description here

- A:) True
- B:) False

Correct:A

Q:114) Which is not an objective of network security?

Sol: description here

- A:) Identification
- B:) Authentication



C:) Access control

D:) Lock

Correct:D

Q:115)Which of these is a part of network identification?

Sol: description here

A:) UserID

B:) Password

C:) OTP

D:) Fingerprint

Correct:A

Q:116)An algorithm in encryption is called \_\_\_\_\_

Sol: description here

A:) Algorithm

B:) Procedure

C:) Cipher

D:) Module

Correct:C

Q:117)A data warehouse is which of the following?

Sol: description here

A:) Can be updated by end users.

B:) Contains numerous naming conventions and formats.

C:) Organized around important subject areas.

D:) Contains only current data.

Correct:C



Q:118)An operational system is which of the following?

Sol: description here

- A:) A system that is used to run the business in real time and is based on historical data.
- B:) A system that is used to run the business in real time and is based on current data.
- C:) A system that is used to support decision making and is based on current data.
- D:) A system that is used to support decision making and is based on historical data

Correct:B

Q:119. A goal of data mining includes which of the following?

Sol: description here

- A:) To explain some observed event or condition
- B:) To confirm that data exists
- C:) To analyze data for expected relationships
- D:) To create a new data warehouse

Correct:

Q:120)Data transformation includes which of the following?

Sol: description here

- A:) A process to change data from a detailed level to a summary level
- B:) A process to change data from a summary level to a detailed level
- C:) Joining data from one source into various sources of data
- D:) Separating data from one source into various sources of data

Correct:A

Q:121) The extract process is which of the following?





Sol: description here

- A:) Capturing all of the data contained in various operational systems
- B:) Capturing a subset of the data contained in various operational systems
- C:) Capturing all of the data contained in various decision support systems
- D:) Capturing a subset of the data contained in various decision support systems

Correct:B

Q:122)A star schema has what type of relationship between a dimension and fact table?

Sol: description here

- A:) Many-to-many
- B:) One-to-one
- C:) One-to-many
- D:) All of the above.

Correct:C

Q:123)Transient data is which of the following?

Sol: description here

- A:) Data in which changes to existing records cause the previous version of the records to be eliminated
- B:) Data in which changes to existing records do not cause the previous version of the records to be eliminated
- C:) Data that are never altered or deleted once they have been added
- D:) Data that are never deleted once they have been added

Correct:A



Q:124 )A multifield transformation does which of the following?

Sol: description here

- A:) Converts data from one field into multiple fields
- B:) Converts data from multiple fields into one field
- C:) Converts data from multiple fields into multiple fields
- D:) All of the above

Correct:D

Q:125) \_\_\_\_\_ computing refers to applications and services that run on a distributed network using virtualized resources.

Sol: description here

- A:) Distributed
- B:) Cloud
- C:) Soft
- D:) Parallel

Correct:B

Q:126)Point out the wrong statement.

Sol: description here

- A:) The massive scale of cloud computing systems was enabled by the popularization of the Internet
- B:) Soft computing represents a real paradigm shift in the way in which systems are deployed
- C:) Cloud computing makes the long-held dream of utility computing possible with a pay-as-you-go, infinitely scalable, universally available system
- D:) All of the mentioned

Correct:B



Q:127) \_\_\_\_\_ as a utility is a dream that dates from the beginning of the computing industry itself.

Sol: description here

- A:) Model
- B:) Computing
- C:) Software
- D:) All of the mentioned

Correct:B

Q:128) Which of the following is essential concept related to Cloud?

Sol: description here

- A:) Reliability
- B:) Productivity
- C:) Abstraction
- D:) All of the mentioned

Correct:C

Q:129) Which of the following can be identified as cloud?

Sol: description here

- A:) Web Applications
- B:) Intranet
- C:) Hadoop
- D:) All of the mentioned

Correct:C

Q:130) Cloud computing is an abstraction based on the notion of pooling physical resources and presenting them as a \_\_\_\_\_ resource.



Sol: description here

- A:) real
- B:) virtual
- C:) cloud
- D:) none of the mentioned

Correct:B

Q:131) \_\_\_\_\_ has many of the characteristics of what is now being called cloud computing.

Sol: description here

- A:) Internet
- B:) Softwares
- C:) Web Service
- D:) All of the mentioned

Correct:A

Q:132)Which of the following is Cloud Platform by Amazon?

Sol: description here

- A:) Azure
- B:) AWS
- C:) Cloudera
- D:) All of the mentioned

Correct:B

Q:133)All cloud computing applications suffer from the inherent \_\_\_\_\_ that is intrinsic in their WAN connectivity.

Sol: description here



- A:) propagation
- B:) latency
- C:) noise
- D:) all of the mentioned

Correct:B

Q:134)Which of the following is the most important area of concern in cloud computing?

Sol: description here

- A:) Security
- B:) Storage
- C:) Scalability
- D:) All of the mentioned

Correct:A

Q:135)Which of the following architectural standards is working with cloud computing industry?

Sol: description here

- A:) Service-oriented architecture
- B:) Standardized Web services
- C:) Web-application frameworks
- D:) All of the mentioned

Correct:A

Q:136)Point out the wrong statement.

Sol: description here



- A:) Everything from the application down to the infrastructure is the vendor's responsibility
- B:) In the deployment model, different cloud types are an expression of the manner in which infrastructure is deployed
- C:) AaaS provides virtual machines, operating systems, applications, services, development frameworks, transactions, and control structures
- D:) All of the mentioned

Correct:C

Q:137) Which of the following is not a diagram studied in Requirement Analysis ?

Sol: description here

- A:) Use Cases
- B:) Entity Relationship Diagram
- C:) State Transition Diagram
- D:) Activity Diagram

Correct:D

Q:138)How many feasibility studies is conducted in Requirement Analysis ?

Sol: description here

- A:) Two
- B:) Three
- C:) Four
- D:) None of the mentioned.

Correct:B

Q:139) How many phases are there in Requirement Analysis ?

Sol: description here

- A:) Three



B:) Four

C:) Five

D:) Six

Correct:C

Q:140)Requirements analysis is critical to the success of a development project.

Sol: description here

A:) True

B:) False

Depends upon the size of project

None of the mentioned

Correct:A

Q:141)Requirements Analysis is an Iterative Process.

Sol: description here

A:) True

B:) False.

Correct:A

Q:142) Coad and Yourdon suggested \_\_\_\_\_ selection characteristics that should be used as an analyst considers each potential object for inclusion in the requirement analysis model.

Sol: description here

A:) Three

B:) Four

C:) Five

D:) Six



Correct:D

Q:143)Requirements should specify 'what' but not 'how'.

Sol: description here

A:) True

B:) False

Correct:A

Q:144) Which of the following property does not correspond to a good Software Requirements Specification (SRS) ?

Sol: description here

A:) Verifiable

B:) Ambiguous

C:) Complete

D:) Traceable

Correct:B

Q:145) In size oriented metrics, metrics are developed based on the \_\_\_\_\_

Sol: description here

A:) number of Functions

B:) number of user inputs

C:) number of lines of code

D:) amount of memory usage

Correct:C

Q:146)Defects removal efficiency (DRE)depends on:

Sol: description here





- A:) E – errors found before software delivery
- B:) D – defects found after delivery to user
- C:) Both E and D
- D:) Varies with project

Correct:C

Q:147)Size and Complexity are a part of

Sol: description here

- A:) Product Metrics
- B:) Process Metrics
- C:) Project Metrics
- D:) All of the mentioned

Correct:A

Q:148)Cost and schedule are a part of

Sol: description here

- A:) Product Metrics
- B:) Process Metrics
- C:) Project Metrics
- D:) All of the mentioned

Correct:C

Q:149)Number of errors found per person hours expended is an example of a

Sol: description here

- A:) measurement
- B:) measure
- C:) metric
- D:) all of the mentioned

Correct:C



**Unit:4 Network Security**

Q:150) Which of the following is not categorized under Product Operation of McCall's Software Quality Factors?

Sol: description here

- A:) Flexibility
- B:) Reliability
- C:) Usability
- D:) Integrity

Correct:A

Q:151) Which of the following is not categorized under Component-Level Design Metrics?

- A:) Complexity Metrics
- B:) Cohesion Metrics
- C:) Morphology Metrics
- D:) Coupling Metrics

Correct:C

Q:152) Number of phases in the handshaking protocol?

Sol: description here

- A:) 2
- B:) 3
- C:) 4
- D:) 5

Correct:C

Q:153) Which of the following slows the cryptographic algorithm –

Sol: description here



- A:) Increase in Number of rounds
- B:) Decrease in Block size
- C:) Decrease in Key Size
- D:) Increase in Sub key Generation

Correct: B and C

Q:154) In a brute force attack, on average half of all possible keys must be tried to achieve success.

Sol: description here

- A:) True
- B:) False

Correct: A

Q:155) If the sender and receiver use different keys, the system is referred to as a conventional cipher system.

Sol: description here

- A:) True
- B:) False

Correct: B

Q:156) The time required to convert a k-bit integer to its representation in the base 10 in terms of big-O notation is

Sol: description here

- A:)  $O(\log_2 n)$



- B:)  $O(\log n)$
- C:)  $O(\log^2 2n)$
- D:)  $O(2\log n)$

Correct:A

Q:157)An encryption scheme is unconditionally secure if the ciphertext generated does not contain enough information to determine uniquely the corresponding plaintext, no matter how much cipher text is available.

Sol: description here

- A:) True
- B:) False

Correct:A

Q:158) What is the size of the key in the SDES algorithm?

Sol: description here

- A:) 24 bits
- B:) 16 bits
- C:) 20 bits
- D:) 10 bits

Correct:D

Q:159)Assume input 10-bit key, K: 1010000010 for the SDES algorithm. What is K1?

Sol: description here

- A:) 10100100
- B:) 01011011
- C:) 01101000
- D:) 10100111



Correct:A

Q:160) Use Caesar's Cipher to decipher the following

HQFUBSWHG WHAW

Sol: description here

- A:) ABANDONED LOCK
- B:) ENCRYPTED TEXT
- C:) ABANDONED TEXT
- D:) ENCRYPTED LOCK

Correct:B

Q:161) Caesar Cipher is an example of

Sol: description here

- A:) Poly-alphabetic Cipher
- B:) Mono-alphabetic Cipher
- C:) Multi-alphabetic Cipher
- D:) Bi-alphabetic Cipher

Correct:B

Q:162) Monoalphabetic ciphers are stronger than Polyalphabetic ciphers because frequency analysis is tougher on the former.

Sol: description here

- A:) True
- B:) False

Correct:B



Q:163) Choose from among the following cipher systems, from best to the worst, with respect to ease of decryption using frequency analysis.

Sol: description here

- A:) Random Polyalphabetic, Plaintext, Playfair
- B:) Random Polyalphabetic, Playfair, Vignere
- C:) Random Polyalphabetic, Vignere, Playfair, Plaintext
- D:) Random Polyalphabetic, Plaintext, Beaufort, Playfair

Correct:C

Q:164) On Encrypting “thepepsiisintherefrigerator” using Vignere Cipher System using the keyword “HUMOR” we get cipher text-

Sol: description here

- A:) abqdnwewuwjphfvrrtrfznsdokvl
- B:) abqdvmmuwjphfvvyyrfznydokvl
- C:) tbqyrvmmuwjphfvvyyrfznydokvl
- D:) baiuvmuwjphfoeiyrzfnydokvl

Correct:B

Q:165) On Encrypting “cryptography” using Vignere Cipher System using the keyword “LUCKY” we get cipher text

Sol: description here

- A:) nlazeiibljji
- B:) nlazeiibljii
- C:) olaaeiibljki
- D:) mlaaeiibljki

Correct:A



Q:166) A symmetric cipher system has an IC of 0.041. What is the length of the key 'm'?

Sol: description here

A:) 1

B:) 3

C:) 2

D:) 5

Correct:D

Q:167) AES uses a \_\_\_\_\_ bit block size and a key size of \_\_\_\_\_ bits.

Sol: description here

A:) 128; 128 or 256

B:) 64; 128 or 192

C:) 256; 128, 192, or 256

D:) 128; 128, 192, or 256

Correct:D

Q:168) There is an addition of round key before the start of the AES round algorithms.

Sol: description here

A:) True

B:) False

Correct:A

Q:169) Which of the 4 operations are false for each round in the AES algorithm

Sol: description here



- A:) Substitute Bytes
- B:) Shift Columns
- C:) Mix Rows
- D:) XOR Round Key

Correct:C and D

Q:170 )Conversion of the Plaintext MANIPALINSTITUTE to a state matrix leads to

Sol: description here

a)

M	A	N	I
P	A	L	I
N	S	T	I
T	U	T	E

b)

M	P	N	T
A	A	S	U
N	L	T	T
I	I	I	E





c)

M	A	I	L
N	P	I	T
A	N	I	U
S	T	T	E

d)

E	U	T	L
T	I	I	L
T	N	P	A
S	A	N	M

Q:172 )The \_\_\_\_\_ model originally did not require a cloud to use virtualization to pool resources.

Sol: description here

- A:) NEFT
- B:) NIST
- C:) NIT



D:) All of the mentioned

Correct:B

Q:173)Wi-Fi stands for-

Sol: description here

A:) Wireless Fidelity

B:) Wireless LAN

C:) Wireless FLAN

D:) None of the mentioned

Correct:A

Q:174)Wired networks are far more susceptible to eavesdropping and jamming than wireless networks.

Sol: description here

A:) True

B:) False

Correct:B

Q:175) “A user intending to connect to one LAN may unintentionally lock onto a wireless access point from the neighboring network.” Which type of Wireless network threat would you classify this under?

Sol: description here

A:) Malicious Threat

B:) Network Injection

C:) Denial Of Service

D:) Accidental Association

Correct:D



Q:176) “When there is a lack of a central point of control.” Which type of Wireless network threat would you classify this under?

Sol: description here

- A:) Man in the middle attack
- B:) Identity Theft
- C:) Ad Hoc Networks
- D:) Non-Traditional Networks

Correct:C

Q:177) “When fraud access points are created to access information such as passwords.” Which type of Wireless network threat would you classify this under?

Sol: description here

- A:) Identity Theft
- B:) Network Injection
- C:) Man in the middle attack
- D:) Malicious Association

Correct:D

Q:178) “When bogus reconfiguration commands are used to affect routers and switches to degrade network performance.” Which type of Wireless network threat would you classify this under?

Sol: description here

- A:) Network Injection
- B:) Malicious Association
- C:) Man in the middle attack
- D:) Denial Of Service

Correct:A



Q:179) “When communication is unknowingly going through an adversary/intermediate.” Which type of Wireless network threat would you classify this under?

Sol: description here

- A:) Malicious Association
- B:) Man in the middle attack
- C:) Network Injection
- D:) Accidental Association

Correct:B

Q:180) “When an attacker is able to eavesdrop on network traffic and identify the MAC address of a computer with network privileges.” Which type of Wireless network threat would you classify this under?

Sol: description here

- A:) Identity Theft.
- B:) Man in the middle attack
- C:) Network Injection
- D:) Accidental Association

Correct:A

Q:181) SSID stands for –

Sol: description here

- A:) Secure Service Identifier
- B:) Secure Set Independent Device
- C:) Secure Set Identifier
- D:) Service Set Independent Device

Correct:C



Q:182) Mobile Device security falls under 3 categories. Which of these is not a valid Mobile Device security category?

Sol: description here

- A:) Barrier security
- B:) Traffic security
- C:) Device security
- D:) All of the above

Correct:D

Q:183) “Installation of third party applications are prohibited on many company hardware devices such as laptops, mobiles, etc.” Which Mobile Device security category of implementation does this fall under?

Sol: description here

- A:) Barrier security
- B:) Traffic security
- C:) Device security
- D:) None of the mentioned

Correct:D

Q:184) VPN stands for –

Sol: description here

- A:) Visual Performance Node
- B:) Virtual Private Network
- C:) Virtual Post Node
- D:) Virtual Post Network



Correct:B

Q:185) Another name for the Wireless Ethernet 802.11a is-

Sol: description here

- A:) Wi-Fi
- B:) Wi-Fi4
- C:) Wi-Fi5
- D:) Wi-Fi6

Correct:C

Q:186) Which of these is not a valid Signal-Hiding Technique for Wireless networks? Sol: description here

- A:) reducing the signal strength to the lowest level such that it still provides requisite coverage
- B:) using directional antennas and signal shielding techniques
- C:) installing the wireless access point away from exteriors of the building
- D:) none of the mentioned

Correct:D

Q:187) Caesar Cipher is an example of

Sol: description here

- A:) Poly-alphabetic Cipher
- B:) Mono-alphabetic Cipher
- C:) Multi-alphabetic Cipher
- D:) Bi-alphabetic Cipher

Correct:B



Q:188) On Encrypting “thepepsiisintherefrigerator” using Vignere Cipher System using the keyword “HUMOR” we get cipher text-

Sol: description here

- A:) abqdnwewuwjphfvrrtrfznsdokvl
- B:) abqdvmmuwjphfvvyyrfznydokvl
- C:) tbqyrvmwuwjphfvvyyrfznydokvl
- D:) baiuvmwuwjphfoeiyrfznydokvl

Correct:B

Q:189)How many modes of operation are there in in DES and AES?

Sol: description here

- A:) 4
- B:) 3
- C:) 2
- D:) 5

Correct:D

Q:190) Which one of the following modes of operation in DES is used for operating short data?

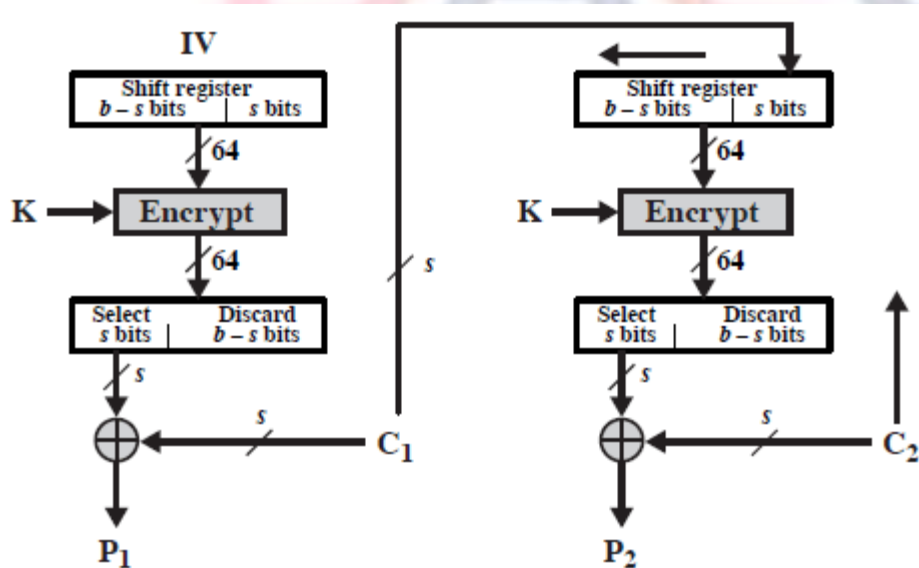
Sol: description here

- A:) Cipher Feedback Mode (CFB)
- B:) Cipher Block chaining (CBC)
- C:) Electronic code book (ECB)

D:) Output Feedback Modes (OFB)

Correct:C

191 . What is the fault in the above figure?



- The output of the XOR is sent to the next stage
- The "Encrypt" Box should be replaced by "Decrypt Box"
- b-s bits are selected for the XOR operation
- No fault

Correct:B

192 During decryption, we use the Inverse Initial Permutation (IP-1) before the IP.





Sol: description here

- A:) True
- B:) False

Correct:A

Q:193) A preferable cryptographic algorithm should have a good avalanche effect.

Sol: description here

- A:) True
- B:) False

Correct:A

Q:194) The number of tests required to break the Double DES algorithm are

Sol: description here

- A:) 2112
- B:) 2111
- C:) 2128
- D:) 2119

Correct:B



Q:195 )How many keys does the Triple DES algorithm use?

Sol: description here

- A:) 2
- B:) 3
- C:) 2 or 3
- D:) 3 or 4

Correct:C

Q:196) In triple DES, the key size is \_\_\_ and meet in the middle attack takes \_\_\_ tests to break the key.

Sol: description here

- A:) 2192 ,2112
- B:) 2184,2111
- C:) 2168,2111
- D:) 2168,2112

Correct:D

Q:197) When a hash function is used to provide message authentication, the hash function value is referred to as

Sol: description here



- A:) Message Field
- B:) Message Digest
- C:) Message Score
- D:) Message Leap

Correct:B

Q:198) Message authentication code is also known as

Sol: description here

- A:) key code
- B:) hash code
- C:) keyed hash function
- D:) message key hash function

Correct:C

Q:199) Which one of the following is not an application hash functions?

Sol: description here

- A:) One-way password file
- B:) Key wrapping
- C:) Virus Detection
- D:) Intrusion detection

Correct:A



Q:200 )A larger hash code cannot be decomposed into independent subcodes.

Sol: description here

A:) True

B:) False

Correct:B





**Unit 5 Computing and Informatics**

Q:201) What type of computing technology refers to services and applications that typically run on a distributed network through virtualized resources?

Sol: description here

- A:) Distributed Computing
- B:) Cloud Computing
- C:) Soft Computing
- D:) Parallel Computing

**Correct Answer::B**

Q:202) Which one of the following options can be considered as the Cloud?

Sol: description here

- A:) Hadoop
- B:) Intranet
- C:) Web Applications
- D:) All of the mentioned

**Correct Answer::A**

Q:203) Cloud computing is a kind of abstraction which is based on the notion of combining physical resources and represents them as \_\_\_\_\_resources to users.

Sol: description here

- A:) Real



- B:) Cloud
- C:) Virtual
- D:) none of the mentioned

Correct Answer::C

Q:204) Which of the following has many features of that is now known as cloud computing?

Sol: description here

- A:) Web Service
- B:) Softwares
- C:) All of the mentioned
- D:) Internet

Correct Answer::D

Q:205) Which one of the following cloud concepts is related to sharing and pooling the resources?

Sol: description here

- A:) Polymorphism
- B:) Virtualization
- C:) Abstraction
- D:) None of the mentioned



**Correct Answer::B**

Q:206) Which one of the following statements is not true?

Sol: description here

- A:) The popularization of the Internet actually enabled most cloud computing systems.
- B:) Cloud computing makes the long-held dream of utility as a payment possible for you, with an infinitely scalable, universally available system, pay what you use.
- C:) Soft computing addresses a real paradigm in the way in which the system is deployed.
- D:) All of the mentioned

**Correct Answer::C**

Q:207) Which one of the following can be considered as a utility is a dream that dates from the beginning of the computing industry itself?

Sol: description here

- A:) Computing
- B:) Model
- C:) Software
- D:) All of the mentioned

**Correct Answer::A**



Q:208) Which of the following is an essential concept related to Cloud?

Sol: description here

- A:) Reliability
- B:) Abstraction
- C:) Productivity
- D:) All of the mentioned

**Correct Answer::B**

Q:209) Which one of the following is Cloud Platform by Amazon?

Sol: description here

- A:) Azure
- B:) AWS
- C:) Cloudera
- D:) All of the mentioned

**Correct Answer::B**

Q:210) Which of the following statement is not true?

Sol: description here





- A:) Through cloud computing, one can begin with very small and become big in a rapid manner.
- B:) All applications benefit from deployment in the Cloud.
- C:) Cloud computing is revolutionary, even though the technology it is built on is evolutionary.
- D:) None of the mentioned

**Correct Answer::B**

Q:211) In the Planning Phase, Which of the following is the correct step for performing the analysis?

Sol: description here

- A:) Cloud Computing Value Proposition
- B:) Cloud Computing Strategy Planning
- C:) Both A and B
- D:) Business Architecture Development

**Correct Answer::C**

Q:212) In which one of the following, a strategy record or Document is created respectively to the events, conditions a user may face while applying cloud computing mode.

Sol: description here

- A:) Cloud Computing Value Proposition



- B:) Cloud Computing Strategy Planning
- C:) Planning Phase
- D:) Business Architecture Development

**Correct Answer::B**

Q:213) What is Business Architecture Development?

Sol: description here

- A:) We recognize the risks that might be caused by cloud computing application from a business perspective.
- B:) We identify the applications that support the business processes and the technologies required to support enterprise applications and data systems.
- C:) We formulate all kinds of plans that are required to transform the current business to cloud computing modes.
- D:) None of the above

**Correct Answer::A**



Q:214) Which one of the following refers to the non-functional requirements like disaster recovery, security, reliability, etc.

Sol: description here

- A:) Service Development
- B:) Quality of service
- C:) Plan Development
- D:) Technical Service

**Correct Answer::B**

Q:215) Which one of the following is a phase of the Deployment process?

Sol: description here

- A:) Selecting Cloud Computing Provider
- B:) IT Architecture Development
- C:) Business Architecture Development
- D:) Transformation Plan Development

**Correct Answer::D**

Q:216) This phase involves selecting a cloud provider based on the Service Level Agreement (SLA), which defines the level of service the provider receives.

Sol: description here



- A:) Maintenance and Technical Service
- B:) Selecting Cloud Computing Provider
- C:) Both A and B
- D:) None of the above

Correct Answer:: B

Q:217) In which one of the following phases, IT Architecture Development came?

Sol: description here

- A:) Strategy Phase
- B:) Planning Phase
- C:) Deployment Phase
- D:) Development Phase

Correct Answer:: B

Q:218) Which of the model involves the special types of services that users can access on a Cloud Computing platform?

Sol: description here

- A:) Service
- B:) Planning
- C:) Deployment
- D:) Application

Correct Answer:: A



Q:219) Which one of the following is related to the services provided by Cloud?

Sol: description here

- A:) Sourcing
- B:) Ownership
- C:) Reliability
- D:) PaaS

Correct Answer:: A

Q:220) How many phases are present in Cloud Computing Planning?

Sol: description here

- A:) 2
- B:) 3
- C:) 4
- D:) 5

Correct Answer:: B

Q:221) Cloud computing architecture is a combination of?

Sol: description here

- A:) service-oriented architecture and grid computing
- B:) Utility computing and event-driven architecture.
- C:) Service-oriented architecture and event-driven architecture.
- D:) Virtualization and event-driven architecture.

Correct Correct Answer: C



Q:222) In how many parts we can broadly divide the architecture of the Cloud?

Sol: description here

- A:) 4
- B:) 3
- C:) 2
- D:) 5

Correct Correct Answer: C

Q:223) Which one of the following refers to the user's part of the Cloud Computing system?

Sol: description here

- A:) back End
- B:) Management
- C:) Infrastructure
- D:) Front End

Correct Correct Answer: D

Q:224) Which one of the following can be considered as the example of the Front-end?

Sol: description here

- A:) Web Browser



- B:) Google Compute Engine
- C:) Cisco Metapod
- D:) Amazon Web Services

Correct Correct Answer: A

Q:225) By whom is the backend commonly used?

Sol: description here

- A:) Client
- B:) User
- C:) Stockholders
- D:) service provider

Correct Correct Answer: D

Q:226) Through which, the backend and front-end are connected with each other?

Sol: description here

- A:) Browser
- B:) Database
- C:) Network
- D:) Both A and B

Correct Correct Answer: C



Q:227) How many types of services are there those are offered by the Cloud Computing to the users?

Sol: description here

- A:) 2
- B:) 4
- C:) 3
- D:) 5

Correct Correct Answer: C

Q:228) The Foc.com and windows Azure are examples of which of the following?

Sol: description here

- A:) IaaS
- B:) PaaS
- C:) SaaS
- D:) Both A and B

Correct Correct Answer: B

Q:229) Which of the following is one of the backend's built-in components of cloud computing?

Sol: description here

- A:) Security
- B:) Application





- C:) Storage
- D:) Service

Correct Correct Answer: A

Q:230) Which of the following provides the Graphic User Interface (GUI) for interaction with the cloud?

Sol: description here

- A:) Client
- B:) Client Infrastructure
- C:) Application
- D:) Server

Correct Correct Answer: B

Q:231) Which one of the following a technology works behind the cloud computing platform?

Sol: description here

- A:) Virtualization
- B:) SOA
- C:) Grid Computing
- D:) All of the above

Correct Answer: D



Q:232) Which one of the following is a kind of technique that allows sharing the single physical instance of an application or the resources among multiple organizations/customers?

Sol: description here

- A:) Virtualization
- B:) Service-Oriented Architecture
- C:) Grid Computing
- D:) Utility Computing

Correct Answer: A

Q:233) Which one of the following statement is true about the Virtualization?

Sol: description here

- A:) It provides a logical name for a physical resource, and on-demand provides an indicator of that physical resource.
- B:) In Virtualization, we analyze the strategy related problems that customers may face.
- C:) In Virtualization, it is necessary to compile the Multitenant properly.
- D:) All of the above

Correct Answer: A

Q:234) In Virtualization, which architecture provides the virtual isolation between the several tenants?



Sol: description here

- A:) IT Architecture
- B:) Multitenant
- C:) Deployment
- D:) Business Architecture

Correct Answer: B

.Q:235) On which one of the following utility computing is based?

Sol: description here

- A:) Grid Computing Model
- B:) SOA Model
- C:) virtual isolation Model
- D:) Pay-per-Use model

Correct Answer: D

Q:236) Which one of the following statement is true about the Service-Oriented Architecture?

Sol: description here

- A:) It is possible to exchange data between applications from different vendors without using additional programming.
- B:) It provides computational resources on-demand as a metered service.



- C:) Service-Oriented Architecture allows using the application as a service for other applications.
- D:) Both A and C

Correct Answer: D

Q:237) In Grid Computing, which types of computer resources are there?

Sol: description here

- A:) heterogeneous dispersed.
- B:) geographically dispersed.
- C:) Both A and B
- D:) None of the above

Correct Answer: C

Q:238) Managed IT services are based on the concept of which one of the following?

Sol: description here

- A:) Virtualization
- B:) Utility Computing
- C:) Grid Computing
- D:) SOA

Correct Answer: B



Q:239) Which one of the following refers to the Distributed Computing, in which several sets of computers distributed on multiple geographical locations and are connected with each other to achieve a common goal?

Sol: description here

- A:) Virtualization
- B:) SOA
- C:) Grid Computing
- D:) Utility Computing

Correct Answer: C

Q:240) Which one of the following statement is true about Grid Computing?

Sol: description here

- A:) Pieces combine small tasks into complex tasks
- B:) The subscription tier plays an important role in grid computing.
- C:) Breaks complex tasks into small operations
- D:) Both A and C

Correct Answer: C

Q:241) Which one of the following given programs provides the isolation (abstraction) and partitioning?



Sol: description here

- A:) System hypervisor
- B:) Software hypervisor
- C:) Hardware hypervisor
- D:) Virtualization hypervisor

Correct Answer: D

Q:242) On which one of the following hypervisor runs directly on the underlying host system, it is also known as\_\_\_\_\_?

Sol: description here

- A:) Bare metal hypervisor
- B:) Hosted Hypervisor
- C:) Native Hypervisor
- D:) Both A and C

Correct Answer: D

Q:243) Which of the following behaves like the monitor's entry point and reroutes the instructions of the virtual machine?

Sol: description here



- A:) Dispatcher
- B:) Allocator
- C:) Interpreter
- D:) Both A and B

Correct Answer: A

Q:244) Which one of the following is also known as a Hypervisor?

Sol: description here

- A:) VMA
- B:) VMM
- C:) VMS
- D:) VMR

Correct Answer: B

Q:245) How many kinds of Hypervisor are there?

Sol: description here

- A:) 4
- B:) 3
- C:) 2
- D:) 5



Correct Answer: C

Q:246) Which one of the following is not an example of the Type1-Hypervisor?

Sol: description here

- A:) VMware ESXi
- B:) Citrix XenServer
- C:) Microsoft Hyper-V hypervisor
- D:) VMware Player

Correct Answer: D

Explanation: VMware Player is one of the examples of Typ2-Hypervisor not of the Type1-Hypervisor

Q:247) How many main modules are needed to coordinate in order to emulate the underlying hardware?

Sol: description here

- A:) 3
- B:) 2
- C:) 4
- D:) 5





Correct Answer: A

Q:248) Which one of the following is used to call the allocator?

Sol: description here

- A:) INTERPRETER
- B:) TYPE-2 Hypervisor
- C:) Both A and B
- D:) DISPATCHER

Correct Answer: D

Q:249) The Parallels Desktop can be considered as the example of which of the following?

Sol: description here

- A:) TYPE-2 Hypervisor
- B:) DISPATCHER
- C:) TYPE-1 Hypervisor
- D:) INTERPRETER

Correct Answer: A

Q:250) Which one of the following statements is not true?

Sol: description here



- A:) Whenever a command begins a process, immediately the process virtual machine gets instantiated.
- B:) Usually, the guest operating systems are mores faster in full virtualization as compared to other virtualization schemes.
- C:) It is necessary for the full virtualization that the host OS (Operating System ) offers a Virtual Machine Interface for the guest operating system by which the guest operating system can access the hardware through the host VM.
- D:) All of the above

Correct Answer: C

Q:251) Which of the following statements is not true?

Sol: description here

- A:) Load balancing virtualizes systems and resources by mapping a logical address to a physical address
- B:) Multiple instances of various Google applications are running on different hosts
- C:) Google uses hardware virtualization
- D:) All of the above

Correct Answer: A

Q:252) Which one of the following can be considered as the example of the Type2 Virtual Machine monitors?



Sol: description here

- A:) KVM
- B:) Microsoft Hyper V
- C:) Parallels Desktop
- D:) All of the above

Correct Answer: D

Q:253) Which one of the following is a type of software that supports the virtual machine?

Sol: description here

- A:) Kernel
- B:) Hypervisor
- C:) VMM
- D:) Both B and C

Correct Answer: D