Id	1
Question	The _____ protocol allows the administrator to assign a cost, called the metric, to each route.
A	OSPF
B	RIP
C	BGP
D	BBGP
Answer	A

Id	2
Question	In _____ routing, we assume that there is one node (or more) in each autonomous system that acts on behave of the entire autonomous system.
A	distant vector
B	path vector
C	link state
D	multipoint
Answer	B

Id	3
Question	Which one of the following protocol is used to receive mail messages?
A	SMTP
B	post office protocol
C	internet message access protocol
D	all of the mentioned
Answer	D

Id	4
Question	Simple mail transfer protocol (SMTP) utilizes _____ as the transport layer protocol for electronic mail transfer
A	TCP
B	UDP
C	DCCP
D	SCTP
Answer	A

Id	5
Question	You want to improve network performance by increasing the bandwidth available to hosts and limit the size of the broadcast domains. Which of the following options will achieve this goal?
A	Managed hubs
B	Bridges
C	Switches
D	Switches configured with VLANs
Answer	D

Id	6
Question	Which protocol reduces administrative overhead in a switched network by allowing the configuration of a new VLAN to be distributed to all the switches in a domain?
A	STP
B	VTP
C	DHCP
D	ISL
Answer	B

Id	7
Question	Session Initiation Protocol (SIP), has a mechanism that finds the
A	Domain
B	System
C	IP Address
D	Terminal
Answer	C

Id	8
Question	Establishing a session in Session Initiation Protocol (SIP), requires a three-way
A	Protocols
B	System
C	Ports
D	Handshake
Answer	D

Id	9
Question	H.323 uses G.71 or G.723.1 for
A	Compression
B	Communication
C	Controlling
D	Conferencing
Answer	A

Id	10
Question	IEEE 802.11 defines basic service set as building block of a wireless
A	LAN
B	WAN protocol
C	MAN
D	All of the above
Answer	A

Id	11
Question	In wireless LAN, there are many hidden stations so we cannot detect the
A	Frames
B	Collision
C	Signal
D	Data
Answer	B

Id	12
Question	A set that makes stationary or mobile wireless station and also have optional central base station is known as
A	Basic service set
B	Extended service set
C	Network point set
D	Access point
Answer	A

Id	13
Question	What is the wireless communications technology used in retail operations to identify and secure merchandise?
A	RFID
B	Micro Sensors
C	UNII
D	ISM
Answer	A

Id	14
Question	A wireless network provides immediate connection anywhere in the wireless range of its _____.
A	Access Points
B	Gateways
C	Routers
D	Bridges
Answer	A

Id	15
Question	Which of the following is NOT a component of a Wi-Fi network?
A	A Bluetooth controller
B	A wireless client
C	A wireless LAN controller
D	An access point
Answer	A

Id	16
Question	Which aspect of Wireless LAN security guards against eavesdropping of wireless LAN traffic?
A	Authorization
B	Encryption
C	Accounting
D	Authentication
Answer	B

Id	17
Question	The RSA signature uses which hash algorithm?
A	MD5
B	SHA-1
C	MD5 and SHA-1
D	None of the mentioned.
Answer	C

Id	18
Question	In the handshake protocol which is the message type first sent between client and server ?
A	server_hello
B	client_hello
C	hello_request
D	certificate_request
Answer	B

Id	19
Question	The art of breaking ciphers is known as:
A	cryptology
B	cryptography
C	cryptanalysis
D	crypting
Answer	C

Id	20
Question	What is 'malware'?
A	A virus or worm
B	A Trojan horse
C	A hacker tool
D	A corrupted program
Answer	C

Id	21
Question	In Network Management System, a large network is usually made up of hundreds of
A	Domains
B	Protocols
C	Entities
D	IP
Answer	C

Id	22
Question	We can compare the task of network management to the task of writing a program. Both tasks have actions performed by statements. In network management this is handled by _____.
A	SNMP
B	MIB
C	SMI
D	none of the above
Answer	A

Id	23
Question	_____ is one of the most widely used web server platforms.
A	IIS
B	IAS
C	ISS
D	AIS
Answer	A

Id	24
Question	Well-known port used for FTP's control connection is
A	Port 6
B	Port 8
C	Port 20
D	Port 21
Answer	D

Id	25
Question	Unix is which kind of Operating System?
A	Multi User
B	Multi Processes
C	Multi Tasking
D	All of the mentioned
Answer	D

Id	26
Question	Which one of the following models is not suitable for accommodating any change?
A	Build & Fix Model
B	Prototyping Model
C	RAD Model
D	Waterfall Model
Answer	D

Id	27
Question	Which model can be selected if user is involved in all the phases of SDLC?
A	Waterfall Model
B	Prototyping Model
C	RAD Model
D	both Prototyping Model & RAD Model
Answer	C

Id	28
Question	The user system requirements are the parts of which document ?
A	SDD
B	SRS
C	DDD
D	SRD
Answer	B

Id	29
Question	Conflicting requirements are common in Requirement Engineering, with each client proposing his or her version is the right one.
A	TRUE
B	FALSE
Answer	A

Id	30
Question	Which is one of the most important stakeholder from the following ?
A	Entry level personnel
B	Middle level stakeholder
C	Managers
D	Users of the software
Answer	D

Id	31
Question	Which of the following is not considered as a risk in project management?
A	Specification delays
B	Product competition
C	Testing
D	Staff turnover
Answer	C

Id	32
Question	Which of the following is/are main parameters that you should use when computing the costs of a software development project?
A	travel and training costs
B	hardware and software costs
C	effort costs (the costs of paying software engineers and managers)
D	all of the mentioned
Answer	D

Id	33
Question	Identify the sub-process of process improvement
A	Process introduction
B	Process analysis
C	De-processification
D	Process distribution
Answer	B

Id	34
Question	The RUP is normally described from three perspectives-dynamic, static & practice. What does static perspective do ?
A	It shows the process activities that are enacted
B	It suggests good practices to be used during the process
C	It shows the phases of the model over time
D	All of the mentioned
Answer	A

Id	35
Question	Which phase of the RUP is used to establish a business case for the system ?
A	Transition
B	Elaboration
C	Construction
D	Inception
Answer	D

Id	36
Question	Component-based Software Engineering allows faster delivery.
A	TRUE
B	FALSE
Answer	A

Id	37
Question	RUP stands for_____ created by a division of _____.
A	Rational Unified Program, IBM
B	Rational Unified Process, Infosys
C	Rational Unified Process, Microsoft
D	Rational Unified Process, IBM
Answer	D

Id	38
Question	What can UML interfaces be used for?
A	To provide concrete classes with the stereotype "interface"
B	To program in Java and C++, but not in C#
C	To define executable logic that can be reused in several classes
D	To specify required services for types of objects
Answer	D

Id	39
Question	Aggregation (encapsulation) relationship is represented in UML notation by
A	Line with solid diamond at one end
B	Line with hollow diamond at one end
C	Line with an arrow at one end
D	Line without an arrow
Answer	B

Id	40
Question	Which diagram is NOT commonly used for illustrating use cases?
A	System sequence diagram
B	Activity diagram
C	Use case diagram
D	Collaboration diagram
Answer	D

Id	41
Question	Which is not feature of OOP in general definitions?
A	Code reusability
B	Modularity
C	Duplicate/Redundant data
D	Efficient Code
Answer	C

Id	42
Question	Which of the following is/are the part of object oriented development where by an object-oriented strategy is used through out the development process. i) Object oriented analysis ii) Object oriented design iii) Object oriented methods iv) Object oriented programming
A	i, ii and iii only
B	ii, iii and iv only
C	i, iii and iv only
D	i, ii and iv only
Answer	D

Id	43
Question	In data-flow diagram, ……………….. show the direction of data flow and their name describes the data flowing along that path.
A	rounded rectangle
B	rectangles
C	circles
D	arrows
Answer	D

Id	44
Question	Which among the following is not true for polymorphism?
A	It is feature of OOP
B	Ease in readability of program
C	Helps in redefining the same functionality
D	Increases overhead of function definition always
Answer	D

Id	45
Question	Which among the following is not true for polymorphism?
A	It is feature of OOP
B	Ease in readability of program
C	Helps in redefining the same functionality
D	Increases overhead of function definition always
Answer	D

Id	46
Question	What combines procedures and tools to manage different versions of configuration objects that are created during the software process?
A	Change control
B	Version control
C	SCIs
D	None of the mentioned
Answer	B

Id	47
Question	Type of server in two-tier architectures which provides data to client stored on disk pages is called
A	transaction server
B	functional server
C	disk server
D	data server
Answer	D

Id	48
Question	In two-tier client/server architecture, running of application programs and user interface programs is in control of
A	modulation side
B	client side
C	server side
D	host side
Answer	B

Id	49
Question	Agile Software Development is based on
A	Incremental Development
B	Iterative Development
C	Linear Development
D	Both Incremental and Iterative Development
Answer	D

Id	50
Question	Which three framework activities are present in Adaptive Software Development(ASD) ?
A	analysis, design, coding
B	requirements gathering, adaptive cycle planning, iterative development
C	speculation, collaboration, learning
D	all of the mentioned
Answer	C

Id	51
Question	Which is correct format of writing JSON name/value pair
A	'name : value'
B	name = 'value'
C	name = "value"
D	"name" : "value"
Answer	D

Id	52
Question	Which of the following is not a type in JSON?
A	date
B	Object
C	Array
D	string
Answer	A

Id	53
Question	What is correct MIME type for JSON ?
A	application/js
B	application/json
C	json/mime
D	application/xml
Answer	B

Id	54
Question	Which of following statement is false about the space parameter in JSON.stringify() ?
A	It controls spacing in the resulting JSON string
B	It is an optional parameter
C	It removes whitespace
D	All are false
Answer	C

Id	55
Question	What is known as the classes that extend Throwable class except RuntimeException and Error?
A	Checked Exception
B	Unchecked Exception
C	Error
D	None of the above
Answer	A

Id	56
Question	What can be accessed or inherited without actual copy of code to each program?
A	Browser
B	Applet
C	Package
D	None of the above
Answer	C

Id	57

Question	Predict the output of following Java program
	``java
	public class Base
	{
	 private int data;
	
	 public Base()
	 {
	 data = 5;
	 }
	 public int getData()
	 {
	 return this.data;
	 }
	}
	
	class Derived extends Base
	{
	 private int data;
	 public Derived()
	 {
	 data = 6;
	 }
	 private int getData()
	 {
	 return data;
	 }
	 public static void main(String[] args)
	 {
	 Derived myData = new Derived();
	 System.out.println(myData.getData());
	 }
	}
	``

A	6
B	5
C	Compile time error
D	Run time error
Answer	C

Id	58
Question	Which is a mechanism where one object acquires all the properties and behaviors of the parent object?
A	Inheritance
B	Encapsulation
C	Polymorphism
D	None of the above
Answer	A

Id	59
Question	C++ does not supports the following
A	Multilevel inheritance
B	Hierarchical inheritance
C	Hybrid inheritance
D	None of the above
Answer	D

Id	60
Question	With respective to streams >> (operator) is called as
A	Insertion operator
B	Extraction operator
C	Right shift operator
D	Left shift operator
Answer	B

Id	61
Question	Following is the invalid inclusion of a file to the current program. Identify it
A	#include <file>
B	#include "file"
C	#include < file
D	All of the above are invalid
Answer	C

Id	62
Question	If a function is friend of a class, which one of the following is wrong?
A	A function can only be declared a friend by a class itself.
B	Friend functions are not members of a class, they are associated with it.
C	Friend functions are members of a class.
D	It can have access to all members of the class, even private ones
Answer	C

Id	63
Question	Using which of the following way can you embed PHP code in an HTML page?
A	<?php PHP code goes here ?>
B	<? PHP code goes here ?>
C	<script language="php"> PHP code goes here </script>
D	All of the above.
Answer	D

Id	64
Question	Which of the following is true about php.ini file?
A	The PHP configuration file, php.ini, is the final and most immediate way to affect PHP's functionality.
B	he php.ini file is read each time PHP is initialized.
C	Both of the above.
D	None of the above.
Answer	C

Id	65
Question	Which of the following is not a web server?
A	Apache tomcat
B	BlueGriffon
C	Jetty
D	Tornado
Answer	B

Id	66
Question	500 series codes indicates a
A	Client side error
B	Server side error
C	Redirection
D	Success
Answer	B

Id	67
Question	Which log file is maintained by apache HTTP server?
A	Apache/logs/access.log
B	Apache/logs/error.log
C	Apache/access/file.log
D	Both A and B
Answer	D

Id	68
Question	The Basic Web Services Platform is combination of _____ and _____
A	CSS + HTTP
B	JAVA + HTTP
C	XML + HTTP
D	JAVA + JSP
Answer	C

Id	69
Question	What is called as Tomcat's JSP Engine
A	Jasper.
B	Casper.
C	Catalina
D	Tomcat JSP Engine
Answer	A

Id	70
Question	In a Javascript Application what function can be used to send messages to users requesting for an text input?
A	Display()
B	Alert()
C	GetOutput()
D	Prompt()
Answer	D

Id	71
Question	The _____ method of an Array object adds and/or removes elements from an array.
A	Reverse
B	Shift
C	Slice
D	Splice
Answer	D

Id	72
Question	A _____ is the simplest form of website, in which the site's content is delivered without the use of server side processing.
A	Social Networking Websites
B	Dynamic Websites
C	Static website
D	E-Commerce Website
Answer	C

Id	73
Question	Several technologies that are used by JavaScript to create dynamic web pages, are known as
A	DOM
B	Ajax
C	MVC
D	MAVC
Answer	B

Id	74
Question	Dynamic web page _____
A	is same every time whenever it displays
B	generates on demand by a program or a request from browser
C	both is same every time whenever it displays and generates on demand by a program or a request from browser
D	is different always in a predefined order
Answer	B

Id	75
Question	Domain Name System (DNS), is a protocol that can be used in different
A	Layers
B	Categories
C	Platform
D	Stages
Answer	C

Id	76
Question	Which of the following could be considered to be an advantage of using e-learning?
A	Quick
B	Easy to use
C	Flexibility
D	Easy to implement
Answer	C

Id	77
Question	What does MOOCS stand for?
A	Mobile Online Open Courses
B	Massive Online Open Courses
C	Mobile Open Online Courses
D	Massive Open Online Courses
Answer	D

Id	78
Question	"Allows participants to complete training in their own time via web based training i.e. email, Blackboard, Moodle, intranets. There is no help from instructors and participants can use the internet as a support tool."What type of e-learning is this quote describing?
A	Blended Learning
B	Synchronus Learning
C	Asynchronus Learning
D	Distance Learning
Answer	C

Id	79
Question	CMS Module is:
A	Collection of code files to add more features
B	Change the style of Framework
C	A framework
D	All of the above
Answer	A

Id	80
Question	What is the purpose of using CMS?
A	To Make regular web designing easy.
B	To reach out to audience with low coding knowledge
C	Because its very user friendly
D	All of the above
Answer	D

Id	81
Question	What type of architecture is followed in CMS?
A	MV
B	MMVC
C	MVC
D	MC
Answer	C

Id	82
Question	What is the easy way add extra Functionality in CMS?
A	Using Plugins/Extensions
B	Downloading New Theme
C	By going to coding portion
D	Making your own theme
Answer	A

Id	83
Question	Magento is used by highest number of users as a E-Commerce CMS because
A	Very Secure
B	Includes large number of inbuilt features
C	Very Effective in SEO
D	All of the above
Answer	D

Id	84
Question	What is VirtueMart?
A	Framework
B	CMS
C	Platform
D	Cloud Server
Answer	B

Id	85
Question	What ways to use WordPress?
A	Arcade
B	Blog
C	Content Management System (CMS)
D	All of the above
Answer	D

Id	86
Question	For each attribute of a relation, there is a set of permitted values, called the _____ of that attribute.
A	Domain
B	Relation
C	Set
D	Schema
Answer	A

Id	87
Question	Database _____ which is the logical design of the database, and the database _____ which is a snapshot of the data in the database at a given instant in time.
A	Instance, Schema
B	Relation, Schema
C	Relation, Domain
D	Schema, Instance
Answer	D

Id	88
Question	The most commonly used operation in relational algebra for projecting a set of tuple from a relation is
A	Join
B	Projection
C	Select
D	Union
Answer	C

Id	89
Question	Which forms has a relation that possesses data about an individual entity:
A	2NF
B	3NF
C	4NF
D	5NF
Answer	C

Id	90
Question	Which forms are based on the concept of functional dependency:
A	1NF
B	2NF
C	3NF
D	4NF
Answer	C

Id	91
Question	In a relation between the entities the type and condition of the relation should be specified. That is called as_____attribute.
A	Descriptive
B	Derived
C	Recursive
D	Relative
Answer	A

Id	92
Question	An entity set that does not have sufficient attributes to form a primary key is termed a _____
A	Strong entity set
B	Variant set
C	Weak entity set
D	Variable set
Answer	C

Id	93
Question	Aggregate functions can be used in the select list or the_____clause of a select statement or subquery. They cannot be used in a _____ clause.
A	Where, having
B	Having, where
C	Group by, having
D	Group by, where
Answer	B

Id	94
Question	WITHmax_budget (VALUE) AS (SELECT MAX(budget) FROM department) SELECT budget FROM department, max_budget WHERE department.budget = MAX budget.value; In the query given above which one of the following is a temporary relation?
A	Budget
B	Department
C	Value
D	Max_budget
Answer	D

Id	95
Question	The database design that consists of multiple tables that are linked together through matching data stored in each table is called
A	Hierarchical database
B	Network database
C	Object oriented database
D	Relational database
Answer	D

Id	96
Question	Which of the following statement is true?
A	DELETE does not free the space containing the table and TRUNCATE free the space containing the table
B	Both DELETE and TRUNCATE free the space containing the table
C	Both DELETE and TRUNCATE does not free the space containing the table
D	DELETE free the space containing the table and TRUNCATE does not free the space
Answer	A

Id	97
Question	The following SQL is which type of join: SELECT CUSTOMER_T. CUSTOMER_ID, ORDER_T. CUSTOMER_ID, NAME, ORDER_ID FROM CUSTOMER_T,ORDER_T WHERE CUSTOMER_T. CUSTOMER_ID = ORDER_T. CUSTOMER_ID?
A	Equi-join
B	Natural join
C	Outer join
D	Cartesian join
Answer	A

Id	98
Question	Class which represents a real-world entity and its instances will be persisted to a database.
A	entity
B	persistent
C	all of the mentioned
D	none of the mentioned
Answer	C

Id	99
Question	A set of persistent annotations for you to define mapping metadata.
A	JPA
B	JSR
C	XML
D	None of the mentioned
Answer	A

Id	100
Question	For mapping and persisting your objects with Hibernate and JPA.
A	Using the Hibernate API to persist objects with Hibernate XML mappings
B	Using the Hibernate API to persist objects with JPA annotations
C	Using JPA to persist objects with JPA annotations
D	All of the mentioned
Answer	D