Examinations Commencing from 1st June 2021

Program: Information Technology Curriculum Scheme: Rev2016

Examination: TE Semester VI

Course Code: ITDLO6021 and Course Name: Advanced Internet Programming

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	Often search engines can not see the hyperlinks in?
Option A:	Image text
Option B:	Image tag
Option C:	Flash content
Option D:	HTML text
2.	Which of the following is used to measure the gap between two visits by the same visitor on a website?
Option A:	Recency
Option B:	Bounce Rate
Option C:	Clickstream
Option D:	Conversion rate
3.	In web services, helps in publishing, describing and discovering.
Option A:	XML
Option B:	SOAP
Option C:	UDDI
Option D:	WSDL
4.	Which of the following is not a response-header field?
Option A:	responseText
Option B:	Content-Type
Option C:	Expires
Option D:	response body
5.	The RDF triplet, object-attribute -value known as
Option A:	Triple
Option B:	Statement
Option C:	Sentence
Option D:	Scheme
6.	As per search engine, if A page has 150 links, B has 200 links and C has 201 links, then which out of A, B, C can be treated as link authoritative pages?
Option A:	Page C because it has most links
Option B:	Page B and C, as they have almost equal and most links on page

Option C:	Page A as it has very few links on the page
Option D:	Any of the page A, B, C as per link neighbourhood
Ծ րոսու Մ .	Any of the page A, D, C as per link heighbourhood
7.	A way to show where a user is in the navigation hierarchy, is termed as?
Option A:	Breadcrumb navigation
Option B:	Horizontal navigation
Option C:	Tree navigation
Option D:	Vertical navigation
Option D.	vertical havigation
8.	Which is not part of RDF terms?
Option A:	Literals
Option B:	RDF URI
Option C:	String
Option D:	Blank Nodes
Option D.	Blank Nodes
9.	Which attribute of <xsl:template> element is used to define which node is eligible for</xsl:template>
Э.	processing?
Option A:	match
Option B:	name
Option C:	element
Option D:	node
Option D.	note
10.	A website where the same keyword is multiple times targeted in the title and the header
10.	tags of the pages, is called as?
Option A:	Keyword bombing
Option B:	Keyword cannibalization
Option C:	Keyword exhausting
Option D:	Keyword overuse
- F	
11.	Which tool is most commonly used for web analytics and is free of charge?
	Google Analytics
Option B:	Radian6
Option C:	AlteranSM2
Option D:	Social Radar
12.	Google search engine will result in "weather" of whom, if searched in the incognito
	tab of Google Chrome?
Option A:	City where user is searching from
Option B:	Default city, New York, US
Option C:	Last city as known to browser based on previous activity
Option D:	Random city
· r	y
13.	Rule Interchange Format is a framework that designs
Option A:	Collection of rules
1	Collection of dialects
Option B:	Concensi of dialects
Option B:	
Option B: Option C: Option D:	Collection of diarects Collection of syntaxes Collection of formats

14.	Identify the right syntax to create JSON objects.
Option A:	object geeta = {
	"age": "24":
	"contactno" : "9900228855":
	"gender" : "female"
O 1: D	<u>};</u>
Option B:	object geeta = { "age" : "24";
	"contactno" : "9900228855";
	"gender" : "female"
	3.
Option C:	var geeta = {
- F	"age": "24"
	"contactno": "9900228855"
	"gender": "female"
	};
Option D:	var geeta = {
	"age" : "24",
	"contactno": "9900228855",
	"gender" : "female"
	} ;
15.	Which of the following is not a framework for single page web applications?
Option A:	AngularJS
Option B:	UltraJS
Option C:	ReactJS
Option D:	Backbone.JS
16.	AJAX is not used in combination with this technology
Option A:	Javascript
-	HTML
Option C:	PHP
Option D:	Flash
17.	What is a lightweight encapsulation format that is specified by WS-Attachmen
1/.	the attachment description format?
Option A:	JSON
Option B:	XML
Option C:	DIME
Option D:	MIME
_	
18.	Which of the following is not a feature of Web 3.0?
Option A:	Semantic Web
Option B:	Artificial intelligence
Option C:	3D Graphics

19.	Which of the following statements are true with respect to Javascript and AJAX?
Option A:	Javascript is a collection of technologies like JSON, XML, HTML and CSS.
Option B:	Ajax is combination of XML and HTML
Option C:	Ajax used a lot of bandwidth as compared to Javascript
Option D:	Javascript requests the server and waits for the response, whereas AJAX sends a
	request to the server and doesn't wait for the response.
20.	Results pooled and ranked from primary indices of the web are called as?
Option A:	PPC results
Option B:	Organic results
Option C:	Vertical results
Option D:	Horizontal results

Q2 (20	Solve any Two Questions out of Three 10 marks each
Marks)	
	Explain the various sections outlined in the Google search engine results, if searched for
A	the keyword, such as "Black Shoes". Also explain how the web crawler/ web spider helps
	the search engine in order to generate the result pages.
В	Upon calling the SEO to improve the existing website of an organisation, the SEO audit
Б	of the existing website considers which elements of the website for improvisation.
С	What is a Web Service? Describe the 2 popular ways of accessing a web service and also
C	compare them.

Q3 (20 Marks)	Solve any Two Questions out of Three 10 marks each
A	What is AJAX? List the advantages of AJAX and also what are the security concerns with AJAX and how can they be handled?
В	Discuss Web analytics 2.0. Explain Clickstream analysis in detail.
С	What are the challenges for Semantic Web?

Course Code: ITDLO6021 and Course Name: Advanced Internet Programming

Answer Key

Question Number	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	С
Q2.	A
Q3.	С
Q4	A
Q5	В
Q6	D
Q7	A
Q8.	С
Q9.	A
Q10.	В
Q11.	A
Q12.	С
Q13.	В
Q14.	D
Q15.	В
Q16.	D
Q17.	С
Q18.	D
Q19.	D
Q20.	В

Examinations Commencing from 1st June 2021

Program: **Information Technology** Curriculum Scheme: Rev2016 Examination: TE Semester VI

Course Code: ITC603 and Course Name: Cloud Computing and Services

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
	compaisory and earry education in
1.	The attempt to categorize the cloud network based on four factors namely location, Ownership, Security, Sourcing has lead to which model?
Option A:	Cloud NIST model
Option B:	Deployment Model
Option C:	Cloud Cube Model
Option D:	Service Models
•	
2.	If the application, data, middleware and runtime executions are managed by the customer then you have purchased a as a service in cloud .
Option A:	Software as a Service
Option B:	Data as a Service
Option C:	Platform as a Service
Option D:	Infrastructure as a Service
3.	In the Cloud Architecture a layer that provides the basic software management for the physical servers and can be implemented as an operating system, hypervisor and virtual machine monitor and/or clustering middleware.
Option A:	Software Kernel
Option B:	Cloud Application Layer
Option C:	Cloud Software Infrastructure Layer
Option D:	Hardware and Firmware
4.	Which of the following is not the advantage of Virtualization?
Option A:	Cost Reduction
Option B:	Efficient resource utilization
Option C:	Increased flexibility
Option D:	Upfront Investments
5.	Which of the following is very poor in ISA Level virtualization?
Option A:	performance
Option B:	application flexibility
Option C:	implementation complexity
Option D:	application isolation

6.	Which technique is used to optimize performance of virtual memory ?
	Accumulator
Option A:	Loader
Option B:	Translation Look aside Buffer
Option C:	
Option D:	Emulator
7.	How can confidentiality of information be achieved?
Option A:	By ensuring enough resources to make information available for all users
Option B:	By preventing unauthorized changes
Option C:	By regularly backing up the information
Option D:	By restricting access to information
1	
8.	Which three OpenStack components does Nova need to function?
Option A:	Neutron, Horizon and Glance
Option B:	Glance, Keystone and Horizon
Option C:	Keystone, Glance and Neutron
Option D:	Cinder, Swift and Kolla
•	
9.	What is Google App Engine (GAE) for?
Option A:	GAE is for detecting malicious apps
Option B:	GAE is for running web applications on Google infrastructure
Option C:	GAE replaces the modern computer
Option D:	GAE is a system to develop hardware interfaces
10.	Challenges in Mobile Cloud Computing are
Option A:	High bandwidth, Heterogeneity
Option B:	Service availability, Homogeneity
Option C:	Low bandwidth, Heterogeneity
Option D:	High bandwidth, Service unavailability
11.	is the medium for storing objects in S3
Option A:	Vault
Option B:	SSD
Option C:	Bucket
Option D:	HDD
12.	An Elastic IP Addresses (EIP) is anthat you can assign to your
	account from the pool and can also return it to the pool.
Option A:	static private IP address
Option B:	static public IP address
Option C:	dynamic public IP address
Option D:	dynamic private IP address
12	:1:1: 61 4 1 1 1 66
13.	is very low-price online file storage web service which offer secure,
Ontin A	flexible and durable storage for online data backup and archiving.
Option A:	Amazon Glacier
Option B:	Amazon S3
Option C:	Amazon EBS
Option D:	Amazon ELB

14.	CSG acts as a bridge between	
Option A:		
Option B:	Remote applications and cloud-based storage	
Option C:	Local applications and local storage	
Option D:	Remote applications and remote storage	
Option D. Remote applications and temote storage		
15.	Keystone does not provide	
Option A:	Public/private key management	
Option B:	Token and password-based authentication	
Option C:	RBAC based authorization	
Option D:	Secure protocols	
1		
16.	Which of the following is not a function of SWIFT	
Option A:	Provisioning and deploying VMs	
Option B:	Storing objects securely	
Option C:	Backup and archival	
Option D:	Extreme scalability	
17.	AWS console is analogous to service of Openstack	
Option A:	Neutron	
Option B:	Nova	
Option C:	Horizon	
Option D:	Glance	
18.	The CDMI standard is developed by	
Option A:	ISOs Storage Web Group	
Option B:	SNIA Cloud Storage Technical Web Group	
Option C:	NISTs Storage Technical Web Group	
Option D:	IEEE Cloud Storage Web Group	
19.	When is cloud recovery possible	
Option A:	when only source is in cloud	
Option B:	when only recovery site is in cloud	
Option C:	when both source and recovery sites are in cloud	
Option D:	when both source and recovery sites are not in cloud	
20.	Virtual storage and virtual machines are provided by	
Option A:	PaaS	
Option B:	IaaS	
Option C:	CaaS	
Option D:	SaaS	

Q2	Solve any Two Questions out of Three	10 marks each

A	Explain the NIST cloud model.
В	Explain Xen virtualization with the help of its architecture.
С	Compare and contrast between AWS S3, EBS and Glaciers.

Q3.	Solve any Two Questions out of Three	10 marks each
A	Write a Short note on Cloud data management interface.	
В	Explain Google File System in detail.	
С	Explain Disaster recovery as a service in detail.	

Course Code: ITC603 and Course Name: Cloud Computing and Services

Answer Key

	Allswei Key
Question Number	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	С
Q2.	D
Q3.	A
Q4	D
Q5	A
Q6	С
Q7	D
Q8.	С
Q9.	В
Q10.	C
Q11.	C
Q12.	В
Q13.	A
Q14.	A
Q15.	D
Q16.	A
Q17.	С
Q18.	В
Q19.	С
Q20.	A

University of Mumbai Examination 2021 under cluster 7

Examinations Commencing from 1st June 2021

Program: **Information Technology**Curriculum Scheme: 2016
Examination: TE Semester VI

Course Code: ITDLO6023 and Course Name: Digital Forensic

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	Most widely used command for listing open ports on unix system is
Option A:	Netstat
Option B:	w-command
Option C:	1s command
Option D:	ps command
2.	is a popular tool used for discovering networks as well as in security auditing.
Option A:	Ettercap
Option B:	Metasploit
Option C:	Nmap
Option D:	Burp Suit
3.	Which of the following deals with network intrusion detection and real-time traffic analysis?
Option A:	John the Ripper
Option B:	LophtCrack
Option C:	Snort
Option D:	Nessus

4	0
4.	One of the most common approaches to validating forensic software is to:
Option A:	Examine the source code
Option B:	Ask others if the software is reliable
Option C:	Compare results of multiple tools for discrepancies
Option D:	Computer forensic tool testing projects
5.	Encase tool is used for
Option A:	Create the image of hard disk drive
Option B:	To generate technical report
Option C:	To see which are the system are still alive in network
Option D:	To create report in PDF file
6.	Which of them is not an appropriate method of router security
Option A:	Unused ports should be blocked
Option B:	Unused interfaces and services should be disabled
Option C:	Routing protocol needs to be programmed by security experts
Option D:	Packet filtering needs to be enabled
7.	is the method for keeping sensitive information in email communication & accounts secure against unofficial access, loss, or compromise.
Option A:	Email security
Option B:	Email hacking
Option C:	Email protection
Option D:	Email safeguarding
8.	The overall I/O rate in RAID level 4 is
Option A:	low
Option B:	very low

Option D: MEDIUM 9. Which of the following will not help in preserving email security? Option A: Create a strong password Option B: Connect your email to a phone number Option C: Use two-factor authentication for password verification and login Option D: Click on unknown links and sites 10. The first tool for making forensic copies of computer storage media was: Option A: EnCase Option B: Expert Witness Option C: dd Option D: Safeback 11. which of the following is not the volatile data for live response Option A: System date and time Option B: USB
Option A: Create a strong password Option B: Connect your email to a phone number Option C: Use two-factor authentication for password verification and login Option D: Click on unknown links and sites 10. The first tool for making forensic copies of computer storage media was: Option A: EnCase Option B: Expert Witness Option C: dd Option D: Safeback 11. which of the following is not the volatile data for live response Option A: System date and time
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Option B: Expert Witness Option C: dd Option D: Safeback 11. which of the following is not the volatile data for live response Option A: System date and time
Option C: dd Option D: Safeback 11. which of the following is not the volatile data for live response Option A: System date and time
Option D: Safeback 11. which of the following is not the volatile data for live response Option A: System date and time
11. which of the following is not the volatile data for live response Option A: System date and time
Option A: System date and time
Option B: USB
Option C: Currently running process
Option D: Currently logged on users
12. Which command is used to display current running process
Option A: psloogedon
Option B: plist
Option C: ps
Option D: pslog

13.	Which phase involves data collection and data analysis.
Option A:	Reporting
Option B:	Resolution
Option C:	Investigation
Option D:	Initial response
14.	Which is not the variations of live response
Option A:	Initial live response
Option B:	Pre-initial live response
Option C:	In-depth response
Option D:	Full live response
15.	During data collection, what is the standard way of obtaining remote logs from a centralized host
Option A:	chklog
Option B:	ChkLog
Option C:	logs
Option D:	SYSLOG
16	A first to all that is social to an list list animal months formall the management
16.	A free tool that is used to enlist listening ports for all the processes.
Option A:	listen
Option B:	listp
Option C:	fport
Option D:	flport
1.7	TT
17.	How many major components are there in incident response methodology
Option A:	9
Option B:	3

Option C:	7
Option D:	5
18.	Which is not a step in preparing the response toolkit
Option A:	Searching information
Option B:	Tag a response toolkit media
Option C:	Check the dependencies
Option D:	creating checksum
19.	which of the following is not a part of CSIRT team:
Option A:	Security analysts
Option B:	Lead investigator
Option C:	Information Lead
Option D:	HR/legal representation
20.	Which is the last component/stage of incident response methodoly
Option A:	Resolution
Option B:	Data analysis
Option C:	Reporting
Option D:	Initial response

Q2)	Solve any Two Questions out of Three 10 marks each	
A	Explain in detail collecting volatile & non-volatile data in unix-based systems	
В	Explain volatile data collection procedure in window systems.	
C	Explain how to use router as a forensic tools.	

Q3)	Solve any Two Questions out of Three 10 marks each
A	Explain RAID techniques in detail.

В	State the rule of digital evidence along with its characteristics.	
С	Explain guidelines for incident report writing. Give one report writing examples	

Course Code:ITDLO6023 and Course Name: Digital Forensic **Answer Key**

	Correct Option
Question Number	(Enter either 'A' or 'B' or 'C' or 'D')
Q1.	A
Q2.	С
Q3.	С
Q4	С
Q5	А
Q6	С
Q7	А
Q8.	С
Q9.	D
Q10.	С
Q11.	В
Q12.	С
Q13.	С
Q14.	В
Q15.	D
Q16.	С
Q17.	С
Q18.	А
Q19.	С
Q20.	С

Program: Information Technology Curriculum Scheme: Rev 2016 Examination: Third Year Semester VI

Course Code: ITC602 and Course Name: Data Mining and Business Intelligence

Q1.	Which of the following is the data mining task?	
Option A:	Registering for an online course	
Option B:	online money payment through a bank	
Option C:	predicting if a student will pass an online course	
Option D:	downloading the course certificate from the website	
орион В.	do winedding the coarse continues from the weekle	
Q2.	Which of the following is not a preprocessing task?	
Option A:	Data cleaning	
Option B:	Data reduction	
Option C:	Data integration	
Option D:	Data manipulation	
1	1	
Q3.	Which is not a Data visualization technique?	
Option A:	Pictures	
Option B:	Graphs	
Option C:	charts	
Option D:	information graphics	
Q4.	Which of the following is NOT example of ordinal attributes?	
Option A:	Zip codes	
Option B:	Ordered numbers	
Option C:	Movie ratings	
Option D:	Military ranks	
Q5.	Calculate the median {1,2,2,2,3,4,5,6,7,8,9,9}	
Option A:	2	
Option B:	4	
Option C:	8	
Option D:	4.5	
•		
Q6.	Use smoothing by bin means to smooth (25,32,33)	
Option A:	30,30,30	
Option B:	32,32,32	
Option C:	33,33,33	
Option D:	25,25,25	
•		
Q7.	The are the attributes of interest describing the tuple in Linear	
	regression	
Option A:	Response Variable	
Option B:	Slope	
Option C:	Coefficients	
Option D:	Predictor Variables	

Q8.	Height, width comes under which type of data?
Option A:	Finite
Option B:	Discrete
Option C:	Infinite
Option D:	Continuous
opiion B.	
Q9.	difference between supervised learning and unsupervised learning is given by
Option A:	unlike unsupervised learning, supervised learning can be used to detect outliers
Option B:	no difference
Option C:	unlike supervised learning, unsupervised learning can form new classes
Option D:	unlike unsupervised learning, supervised learning needs labeled data
1	
Q10.	Following algorithm is density-based clustering algorithm
Option A:	K-Medoids
Option B:	OPTICS
Option C:	DIANA
Option D:	BIRCH
•	
Q11.	The process of hierarchical clustering is represented by-
Option A:	Decision Tree
Option B:	Dendrogram
Option C:	Flowchart
Option D:	Hierarchical model
Q12.	K medoids is an example of which type of clustering method?
Option A:	Hierarchical
Option B:	Density Based
Option C:	Partition
Option D:	Combination
Q13.	Suppose while performing DBSCAN we randomly choose a point which has less
	than MinPts number of points in its neighborhood. Which among the following is
0 1: 1	true for such a point?
Option A:	It is treated as noise, and not considered further in the algorithm
Option B:	It becomes part of its own cluster
Option C:	Depending upon other points, it may later turn out to be a core point
Option D:	Depending upon other points, it may be density connected to other points
Q14.	Which of the following methods explore structures in the data
Option A:	Contextual Outlier Detection and Collective Outlier Detection
Option B:	Classification Outlier Detection and Clustering Outlier Detection
Option C:	Parametric Outlier Detection and Non-Parametric Outlier Detection
Option D:	Distance based Outlier Detection and Density based Outlier Detection
opnon D.	Distance outset Settler Detection and Density outset Outsier Detection
Q15.	The frequency of occurrence of an itemset is also known as
Option A:	Support count
Option B:	Confidence
Option C:	Support
Option D:	Lift
opnon D.	

Q16.	What is association rule mining?	
Option A:	Same as frequent itemset mining	
Option B:	Finding of strong association rules using frequent itemsets	
Option C:	Using association to analyze correlation rules d.	
Option D:	Finding classification rules using frequent itemsets	
Q17.	Which of the following is the application of frequent itemset mining?	
Option A:	Real time analysis	
Option B:	Fraud analysis	
Option C:	Network analysis	
Option D:	Market Basket Analysis	
Q18.	What do you mean by support(X-> Y) is	
Option A:	The number of transactions where XUY appears divided by the total number of	
	transactions.	
Option B:	Total number of transactions containing X or Y	
Option C:	Total number of transactions containing X and Y	
Option D:	Total number of transactions containing X but not Y	
Q19.	Which of the following is not considered as ethical in business Intelligence	
Option A:	Using customer data for better customer service	
Option B:	Giving customer data to other companies for financial gain	
Option C:	Accessing the users' data with for data mining	
Option D:	Accessing user's location to give location specific ads n users mobile phone	
Q20.	Decisions are when they affect the entire organization or at least a substantial	
	part of it for a long period of time.	
Option A:	Operational	
Option B:	Technical	
Option C:	Tactical	
Option D:	Strategic	

Q2.	Solve any Two Questions out of Three	10 marks
A	What is data Preprocessing? Explain different methods	
В	What is clustering? The data for clustering is {2,4,10,12,	3,20,11,25} where
	k=2 cluster the given data using k-means algorithm	

Q3	Solve any Two Questions out of Three 10 marks
A	Define business intelligence with examples
В	Partition the given data into 4 bins using binning method and perform smoothing by bin mean, by median, by bin boundaries Data: 11,13,13,15,15,16,19,20,20,21,21,22,23,24,30,40,45,45,45,71,72,73,75
C	What is an outlier? Describe methods that can be used for outlier analysis

Course Code: ITC602 and Course Name: Data Mining and Business Intelligence

Answer key

Answer key			
Question Number	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')		
Q1.	С		
Q2.	D		
Q3.	A		
Q4	A		
Q5	D		
Q6	A		
Q7	D		
Q8.	D		
Q9.	D		
Q10.	В		
Q11.	В		
Q12.	C		
Q13.	D		
Q14.	A		
Q15.	A		
Q16.	В		
Q17.	D		
Q18.	A		
Q19.	В		
Q20.	D		

Examinations Commencing from 1st June 2021

Program: BE information technology engineering

Curriculum Scheme: Rev2016 Examination: Third Year Semester VI

Course Code: ITDLO6025 and Course Name: Green IT

Time: 2 hour Max. Marks: 80

Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	Strategic planning starts with a prior mission and vision and leads to the	
	formulation of	
Option A:	Strategy and direction	
Option B:	Requirement and analysis	
Option C:	Objectives and Goals	
Option D:	Planning and Thinking	
Q2.	Which one is the fourth level of Enterprise architecture planning levels?	
Option A:	Getting started	
Option B:	Where we are today	
Option C:	Future vision	
Option D:	How to get There	
Q3.	Risk assessment involves how many steps?	
Option A:	4	
Option B:	5	
Option C:	7	
Option D:	6	
Q4	RoHS stands for	
Option A:	Restrictions of Hazardous Substances	
Option B:	Restrict of Hazard Substance	
Option C:	Reaching of Hazardous Social	
Option D:	Restrictions of Hardware Substances	
Q5.	information systems are focused at the operational level of an	
	organization and deal with real-time and very short-term information	
	requirements.	
Option A:	transaction processing system	
Option B:	decision support system	
Option C:	management information system	
Option D:	executive support system	
Q6.	on the needs and requirements of upper management and aid their focus	
	on strategic management of the organization.	
Option A:	transaction processing system	
Option B:	decision support system	

Ontion C	management information system		
Option C:	management information system		
Option D:	executive support system		
07	Which of the following identify which is not a Forman and Information		
Q7.	Which of the following identify which is not a Environmental Information		
0.11	Technology Standard?		
Option A:	Electronic Product Environmental Assessment Tool		
Option B:	Energy Star		
Option C:	IEEE Standard 802.3az-2010		
Option D:	ISO 9001:2018		
Q8.	"Not printing on paper whenever possible" is an example of Green IT		
	strategy, with respect to return on investment.		
Option A:	Operational (immediate)		
Option B:	Tactical (within one year)		
Option C:	Strategic-initial (within three years)		
Option D:	Strategic (within five years)		
Q9.	"Green IT strategies are formulated and approved by the board for		
	implementing green policies, using software along with metrics " is an example		
	of Green IT strategy, with respect to return on investment.		
Option A:	Operational (immediate)		
Option B:	Tactical (within one year)		
Option C:	Strategic-initial (within three years)		
Option D:	Strategic (within five years)		
Q10.	of the following which is not the business driver for green IT strategy.		
Option A:	Cost Reduction		
Option B:	Sociocultural and Political Pressure		
Option C:	Technology Obsolence		
Option D:	Demands from Legal and Regulatory Requirements		
•			
Q11.	Controlling disk access by optimizing is another way of skewing a		
	disk access pattern.		
Option A:	Storage Layouts		
Option B:	Network Layouts		
Option C:	data layouts		
Option D:	Disk Layout		
Q12.	Optimizing the efficiency of IT operational strategies has therefore become a priority to halt further damage to the environment and the reputation of the .		
Option A:	Disk		
Option B:	Network		
Option C:	Internet		
Option D:	Hardware		
3 p 11011 D 1			
Q13.	energy consumption in this environment is therefore a core objective of NGN equipment.		

Option A:	decreasing
Option B:	increasing
Option C:	Minimizing
Option D:	Maximizing
Орион Б.	IVIAXIIIIIZIIIg
Q14.	Which of the following perspectives takes the strongest stance in support of
Q14.	Which of the following perspectives takes the strongest stance in support of sustainability?
Ontion A:	Communalist
Option A:	
Option B:	Accommodating
Option C:	Deep ecology
Option D:	Free market
Q15.	regulations aims to reduce the amount of E-waste going to landfills.
Option A:	WEEE
•	ROHS
Option B:	EPEAT EPEAT
Option C:	IEEE
Option D:	
Q16	Which generation of Green IT is responsible for empowerment the range of
Q10	green initiative?
Ontion A:	Green IT 1.0
Option A:	Green IT 2.0
Option B:	Green IT 2.1
Option C:	
Option D:	Green IT 3.0
Q17	A promising direction towards sustainable development is to design systems that
Q17	A promising direction towards sustainable development is to design systems that are
Ontion A:	Flexible and irreversible
Option A: Option B:	Flexible and reversible Flexible and reversible
•	
Option C:	Inflexible and reversible Inflexible and irreversible
Option D:	ITITIEXIDIE ATIG TITEVELSIDIE
Q18.	Energy management techniques for hard disks?
Option A:	Dynamic RPM
•	
Option B:	Caching
Option C:	Magnetic Tape State transitioning
Option D:	State transitioning
Q19	While developing a green IT strategy it is necessary that of the influence
Q19	of the strategy implemented.
Option A:	viewpoint
Option B:	Reference frame
-	timeframe
Option C:	
Option D:	mindset
Q20	Organization procurement process must involve, development
QZU	and supplier management.
Option A:	cost oriented selection of raw material / product
οριίση Α.	cost offented selection of raw material / product

Option B:	environmentally oriented selection of raw material / products
Option C:	service oriented selection of raw material / product
Option D:	inventory oriented selection of raw material / product

Q2	Solve any Two Questions out of Three	10 marks each
A	Describe life cycle of device with neat and detailed d	iagram.
В	Explain Key facilities and IT infrastructure within da	ta centers.
С	Explain processor power states.	

Q3.	Please delete the instruction shown in front of every sub question	
A	Solve any Two	5 marks each
i.	Explain differences between WEEE, ROHS and REACh	
ii.	What is green washing?	
iii.	Explain green enterprise from value chain perspective.	
В	Solve any One	10 marks each
i.	Explain SITS value curve.	
ii.	Give few examples to illustrate how context awareness lea	ids to 'smarter'
	device?	

Course Code: ITDLO6025 and Course Name: Green IT

Answer Key

Question	Correct Option
	(Enter either 'A' or 'B' or 'C' or 'D')
Q1	С
Q2	D
Q3	D
Q4	A
Q5	A
Q6	D
Q7	D
Q8	А
Q9	С
Q10	С
Q11	С
Q12	С
Q13	С
Q14	С
Q15	А
Q16	В
Q17	В
Q18	С
Q19	С
Q20	В

Examinations Commencing from 1st June 2021

Program: **Information Technology** Curriculum Scheme: Rev2016 Examination: TE Semester VI

Course Code: ITDLO6024 and Course Name: Multimedia System

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	While only ging the image image will have while image will not have
Option A:	While enlarging the image, image will blur while image will not blur. vector,bitmap
Option B:	•
-	bitmap,gif
Option C:	bitmap,vector
Option D:	bitmap, jpeg
2.	What is the extension at the image file used by digital cameras and supports upto 24-bit colors?
Option A:	.bmp
Option B:	.jpeg
Option C:	.gif
Option D:	.tif
3.	If I want to use Google meet as a tool for my online class. Which of the following will be best supported Multimedia System Architecture for the same?
Option A:	Workstation Architecture
Option B:	IMA Architecture
Option C:	Network Architecture
Option D:	Internet Architecture
4.	correlation between adjacent frames in a sequence of images in
	video applications.
Option A:	Spatial redundancy
Option B:	Spectral redundancy
Option C:	Temporal redundancy
Option D:	Coding redundancy
5.	in JPEG aims at reducing the total number of bits in the
	compressed image.
Option A:	Zig-zag ordering
Option B:	run-length encoding
Option C:	Quantization
Option D:	Entropy coding
6.	WAVE sound file format bit stream encoding is the
Option A:	PCM

Option B:	DM
Option C:	PWM
Option D:	DPCM
7.	if I want to edit my childhood photograph, first I have to convert it into the digital format. What would be the best suitable device for the same?
Option A:	Camera
Option B:	scanner
Option C:	printer
Option D:	Electric pen
8.	A structure of linked elements through which the user can navigate, interactive multimedia becomes
Option A:	Hypermedia
Option B:	Hypertext
Option C:	inter media
Option D:	digital media
9.	provide the framework for organizing and editing the elements of a
	multimedia project
Option A:	Distributed multimedia applications
Option B:	Multimedia database
Option C:	Multimedia authoring tools
Option D:	Multimedia architecture
10	
10.	Which of the following is not the feature of multimedia authoring tools?
Option A:	Editing and organizing features
Option B:	Interactivity features Performed on the ingle and play healt features
Option C: Option D:	Performance tuning and play back features Communication feature
Option D.	Communication feature
11.	Which one of the following authoring system are designed for single user and generally for single streams?
Option A:	Timeline based authoring
Option B:	Dedicated authoring systems
Option C:	Programmable authoring systems
Option D:	Telephone authoring systems
12.	The process of delivering multimedia data such as audio or video from a
	streaming service provider to an end user is called
Option A:	Streaming media
Option B:	Broadcasting Video conformation
Option C:	Video conferencing Telegopting
Option D:	Telecasting
13.	Which of the following step is not involved in the design process of multimedia?
Option A:	Identification of the requirements of the system
Option B:	Identifying the design issues
Option C:	Communication with the users
Option D:	Implementation
- cron b.	

14. The medium in which the stored document which has been distributed over the distribution medium is converted to facilitate viewing or reading by the end user is called Option A: Transmission medium Option B: Presentation medium Option D: Information exchange medium Option D: Information exchange medium 15. Which one of the following is not the property of multimedia database management system? Option A: Persistence of data Option D: Security of data Option D: Structure of data Option D: Structure of data 16. Which image files are a lossy format? Option A: GIF Option B: MPEG Option C: JPEG Option D: PNG 17. Image data usually changes slowly across an image, that is the reason JPEG Encoding performs DCT on image blocks Option A: 4 x4 Option B: 8x8 Option C: 16x16 Option D: 32x32 18. Which one of the following is not the design issue of multimedia authoring? Option A: Option A: Display resolution Option B: User interfaces Option C: Network interfaces Option D: Storage formats 19. Which of the following component is not involved in a typical distributed application environment? Option B: User interface and service agent Option C: Component service agent Option C: To link the multiple clients with each other Option B: To link the multiple clients with each other Option C: To link the multiple clients to the distributed dystems Option C: To link the multiple clients to the distributed systems Option D: To link the funt adabase to the server		
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Option B: To link the multiple clients with each other Option C: To link backend database to front end clients		
Option C: To link backend database to front end clients	•	
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	-	

Q2	Solve any Four out of Six	5 marks each
A	Describe multimedia database.	
В	Compare CCITT group 3 one D and CCITT group 3 two	D.
С	What are the different types of redundancies in image?	
D	Compare RTF and TIFF.	
Е	Explain virtual reality in details.	
F	What are design issues face to design the authoring systematics.	em.

Q3.	Solve any Two Questions out of Three	10 marks each
A	A networking company uses a compression technique to en before transmitting over the network. Suppose the mess following characters with their a:7 b:16 c:19 d:45 e:13 f:6 Note that each of message takes 1 byte. If the compression technique used is how many bits will be saved in the message?	sage contains the frequency: character in input
В	Write a short note on Distributed Multimedia System.	
C	Explain JPEG encryption in details.	

Course Code: ITDLO6024 and Course Name: Multimedia Systems

Answer Key

_ Correct Option	
Question Number	(Enter either 'A' or 'B'
	or 'C' or 'D')
Q1.	С
Q2.	В
Q3.	A
Q4	С
Q5	С
Q6	A
Q7	В
Q8.	В
Q9.	С
Q10.	D
Q11.	В
Q12.	A
Q13.	С
Q14.	В
Q15.	D
Q16.	С
Q17.	В
Q18.	В
Q19.	D
Q20.	С

Examinations Commencing from 1st June 2021

Program: Information Technology Curriculum Scheme: Rev 2016 Examination: TE Semester VI

Course Code: ITC601 and Course Name: Software Engineering with Project Management
Time: 2 hour

Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	Which model combines linear and parallel flow?
Option A:	Waterfall
Option B:	Incremental
Option C:	Spiral
Option D:	Prototyping
2.	Which type of components will you use if Existing specifications, designs, code developed for past projects are similar to the software to be built for the current project
Option A:	Full-experience
Option B:	OTS
Option C:	Partial-experience
Option D:	New components
3.	With reference to Software Design Classes: provide refinements of analysis classes

Option A:	User interface classes
Option B:	Business domain classes
Option C:	Process classes
Option D:	System classes
4.	A specification or product that has been formally reviewed and agreed upon, that thereafter serves as the basis for further development, and that can be changed only through formal change control procedures is called
Option A:	Software configuration item
Option B:	Baseline
Option C:	Software configuration model
Option D:	SCM process
5.	Which is not content of RFP?
Option A:	Statement of Work and Proposal Requirements
Option B:	Contractual Provisions
Option C:	Technical Information or Data
Option D:	Time line chart
6.	Project-Oriented Scope create
Option A:	Deliverable definition table
Option B:	Decision structure chart

Option C:	PERT chart
Option D:	Gantt chart
7.	As per revised PMI guidelines WBS should be
Option A:	Fixed
Option B:	Flexible
Option C:	Temporary
Option D:	not a part of Project Management.
8.	DSC stands for
Option A:	Decision structure chart
Option B:	Data structure chart
Option C:	Deliverable structure chart
Option D:	Design structure chart
9.	The prototyping model of software development is useful in which situation?
Option A:	Useful when requirements are not clear
Option B:	Useful when requirements are well defined
Option C:	Useful when projects with large development teams
Option D:	Useful when risk involves
	l

10.	The "meta-questions" proposed by Gause and Weinberg refers to the questions which focuses on
Option A:	Customer and other stakeholders
Option B:	Effectiveness of the communication activity itself
Option C:	Customers perceptions about solution
Option D:	Meta model
11.	Information Hiding does NOT
Option A:	reduce the likelihood of "side effects"
Option B:	limit the global impact of local design decisions
Option C:	emphasize communication through controlled interfaces
Option D:	encourage the use of global data
12.	The set of activities that have been developed to manage change throughout the life cycle of computer software are
Option A:	Software maintenance management
Option B:	Software configuration management
Option C:	Software testing
Option D:	Software life cycle management
13.	Sequence of scope management process is
Option A:	Scope initiation, planning, definition, verification and change control

Option B:	Scope verification, initiation, planning, definition and change control	
Option C:	Scope planning, definition, verification, change control and planning	
Option D:	Scope change control, verification, initiation, planning and definition	
14.	WBS includes	
Option A:	Only deliverables	
Option B:	Only milestones	
Option C:	Only executables	
Option D:	Both deliverables and milestone	
15.	Refactoring refers to	
Option A:	Modification to internal design	
Option B:	Pair Programming	
Option C:	Encapsulation	
Option D:	Component reusability	
16.	Calculate the function point (FP) for the given information domain. Number of External Inputs (EI):15, Number of External Outputs (EO):12, Number of external inquiries (EQ):17, Number of internal files (ILF):6, Number of external interfaces (EIF):3. Assume the weighting factor to be average (4, 5, 4, 10, 7). The value adjustment factor is 46.	
Option A:	399	
Option B:	199	

Option C:	299
Option D:	200
17.	When software is refactored, the existing design is examined for 1) redundancy 2) unused design elements 3) inefficient or unnecessary algorithms
Option A:	Only 1 is correct
Option B:	Only 1 and 3 are correct
Option C:	Only 1 and 2 are correct
Option D:	All 1,2 and 3 are correct
18.	In unit testing, if called/child module is not ready, dummy module will acts as called/child module, what is the name given to dummy module in unit testing?
Option A:	Stub
Option B:	Driver
Option C:	Sample module
Option D:	Reference module
19.	Project Charter is
Option A:	The deliverable for the second phase of the IT project methodology
Option B:	The deliverable for the first phase of the IT project methodology
Option C:	The deliverable for the third phase of the IT project methodology
Option D:	The deliverable for the fourth phase of the IT project methodology
	

20.	In AOA
Option A:	arrow represent activity and node represent event
Option B:	arrow represent event and node represent activity
Option C:	arrow represent dependency and node represent event
Option D:	arrow represent flow and node represent estimate

Q2.	(20 Marks)
A	Attempt any two from following. (5 marks each)
i.	Write a short note on Aspect Oriented Software Development.
ii.	Comment on Collaborative Requirement Gathering process.
iii.	Describe in brief Call and Return software architecture.
В	Solve any One (10 marks each)
i.	Explain how and why the analysis model is translated into design model.
ii.	Describe in detail the process of developing a business case.

Q3.	(20 Marks)
A	Attempt any two from following. (5 marks each)
i.	Enlist and explain in brief Characteristics of Testability of a software.
ii.	Describe how a project life cycle is associated to software development life cycle.
iii.	Comment on RMMM planning.
В	Solve any One (10 marks each)

i.	Explain how function points may be used for estimating cost and efforts required for a project.
ii.	For the following table calculate expected duration of each activity and find the critical path.

Activity	Predecessor	Optimistic Estimates (Days) a	Most Likely Estimates (Days) h	Pessimistic Estimates (Days) c
ilivity	110000301	u		
A	None	1	2	4
В	A	3	5	8
C	В	2	4	5
D	В	2	3	6
E	В	1	1	1
F	C, D	2	4	6
G	D, E	2	3	4
Н	F, G	1	2	5
I	G	4	5	9
J	H, I	.5	1	3

Course Code: ITC601 and Course Name: Software Engineering with Project Management

Answer Key

1	Allswei Key			
Question Number	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')			
Q1.	В			
Q2.	A			
Q3.	В			
Q4	В			
Q5	D			
Q6	A			
Q7	В			
Q8.	С			
Q9.	A			
Q10.	В			
Q11.	D			
Q12.	В			
Q13.	A			
Q14.	D			
Q15.	A			
Q16.	С			
Q17.	D			
Q18.	A			
Q19.	A			
Q20.	A			

Program: Information Technology Engineering Curriculum Scheme: Rev2016

Examination: Third Year Semester VI

Course Code: ITDLO6022 and Course Name: Software Architecture

Time: 2 hours Max. Marks: 80

4

All the Questions are compulsory and carry equal marks

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks	
1.	Which one of the following words does not describe best the software design operators	
Option A:	Decomposition	
Option B:	Connecting elements	
Option C:	Replication	
Option D:	Compression	
2.	Which features listed below are not the common architectural styles	
Option A:	Data flow systems	
Option B:	Call and return system	
Option C:	Software maintenance	
Option D:	Virtual machine	
3.	Which one among the following does Seeheim reference model contain	
Option A:	Data flow systems	
Option B:	Application	
Option C:	Call and return system	
Option D:	Virtual machine	
4.	Which one among the following does Arch/Slinky model contain	
Option A:	Dialog control	
Option B:	Call and return system	
Option C:	Abstraction	
Option D:	Data flow systems	
	NAME to be a second of the fall of the second of the secon	
5.	Which one among the following is not applicable to 4+1 view model	
Option A:	Logical view Process view	
Option B:	Process view Abstraction	
Option C:	Abstraction	
Option D:	Physical view	
6.	Which one among the following is not applicable to benefits of DevOps	
Option A:	Speed	
Option B:	Reliability	
Option C:	Security	
Option D:	Complexity	

7.	Which one among the following words do not describe the Vitruvian Triad
Option A:	Function and product planning
Option B:	Requirements analysis
Option C:	Fabrication
Option D:	Form and interaction design
8.	Which one of the following statements describe best the term complexity in software design
Option A:	is an approximation of selected aspects of a system such as its structure, behaviour, operation or characteristic
Option B:	can be thought of being composed of private hidden information and some visible information
Option C:	requires a long description describing the relationship between the structures within the system
Option D:	Implementation, testing and maintenance post deployment
9.	Which one of the following statements describe best the term modularity in software design
Option A:	requires a long description describing the relationship between the structures within the system
Option B:	can be thought of being composed of private hidden information and some visible information
Option C:	is an approximation of selected aspects of a system such as its structure, behaviour, operation or characteristic
Option D:	Implementation, testing and maintenance post deployment
10.	Which one of the following statements describe best the term Model in software design
Option A:	requires a long description describing the relationship between the structures within the system
Option B:	can be thought of being composed of private hidden information and some visible information
Option C:	Implementation, testing and maintenance post deployment
Option D:	is an approximation of selected aspects of a system such as its structure, behaviour, operation or characteristic
11.	After 1970 software program was written using
Option A:	Binary language
Option B:	High level language
Option C:	Assembly language
Option D:	Mnemonics
12.	Which statement written below best represents a connector
Option A:	Which statement written below best represents a connector is an indication that there is a mechanism that relates one component to another usually through relationships such as data flow or control flow.
	is an indication that there is a mechanism that relates one component to another usually through relationships such as data flow or control flow. defines the hardware and software building blocks that make up the overall information
Option A:	is an indication that there is a mechanism that relates one component to another usually through relationships such as data flow or control flow.

13.	Which statement written below best represents an architectural description
Option A:	is an indication that there is a mechanism that relates one component to another usually through relationships such as data flow or control flow.
Option B:	defines the hardware and software building blocks that make up the overall information system of an organization
Option C:	Is a low level language
Option D:	strategy, governance, organization and key business process
Q14.	Which statement written below best represents a business architecture
Option A:	is an indication that there is a mechanism that relates one component to another usually through relationships such as data flow or control flow.
Option B:	defines the hardware and software building blocks that make up the overall information system of an organization
Option C:	strategy, governance, organization and key business process
Option D:	Is a low level language
15.	Which statement written below is best applicable to abstraction thinking in the General methodology of design
Option A:	requires systematic thinking
Option B:	reduces the complexity of the problem
Option C:	the decomposition of complex systems into elements and their interrelationships, identifying essential distinctions, and discarding accidental distinctions
Option D:	is the combining of individual modules to produce a new entity
16.	Which statement written below is best applicable to design in software engineering view
Option A:	is the activity of gathering, identifying, and formalizing requirements in order to understand the actual problems for which a solution is sought
Option B:	is the activity of transforming requirement specifications into a technically feasible solution
Option C:	the design is transformed into source code
Option D:	fixing defects in the system and adding minor function enhancements
17.	Which statement written below is best applicable to implementation and testing in software engineering view
Option A:	the design is transformed into source code
Option B:	is the activity of transforming requirement specifications into a technically feasible solution
Option C:	is the activity of gathering, identifying, and formalizing requirements in order to understand the actual problems for which a solution is sought
Option D:	fixing defects in the system and adding minor function enhancements

18.	Which statement written below is best applicable to deployment and maintenance in software engineering view	
Option A:	fixing defects in the system and adding minor function enhancements	
Option B:	is the activity of transforming requirement specifications into a technically feasible solution	
Option C:	the design is transformed into source code	
Option D:	is the activity of gathering, identifying, and formalizing requirements in order to understand the actual problems for which a solution is sought	
19.	Which words written below are best applicable to inception phase in the management view of software architecture	
Option A:	development planning	
Option B:	Problem definition	
Option C:	implementation and testing	
Option D:	delivering, installation training, support and documentation	
20.	Which words written below are best applicable to elaboration phase in the management view of software architecture	
Option A:	Problem definition	
Option B:	delivering, installation training, support and documentation	
Option C:	implementation and testing	
Option D:	development planning	

Q2	Solve any Two Questions out of Three 10 marks each	
(20 Marks)		
A	Explain with suitable examples elements of software architecture	
В	List with suitable examples the problems faced in software architectural design	
C	Write a short note on models with regards to software architecture	

Q3. (20 Marks)	Solve any Two Questions out of Three 10 marks each
A	Explain in brief the goals of Software architecture
В	Describe in detail common architecture styles in software architecture
С	Write a short note on 4+1 view model of software architecture

Course Code: ITDLO 6022 and Course Name: Software Architecture

Answer Key

Answer Key		
Question	Correct Option	
Number		
Q1.	В	
Q2.	С	
Q3.	В	
Q4.	A	
Q5.	С	
Q6.	D	
Q7.	В	
Q8.	С	
Q9.	В	
Q10.	D	
Q11.	В	
Q12.	A	
Q13.	С	
Q14.	С	
Q15.	В	
Q16.	В	
Q17.	A	
Q18.	A	
Q19.	В	
Q20.	D	

University of Mumbai Examination June 2021

Examinations Commencing from 1st June 2021

Program: Information Technology Curriculum Scheme: Rev2016 Examination: TE Semester VI

Course Code: ITC604 and Course Name: Wireless Network

Time: 2 hour Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks	
1.	When an electromagnetic wave travels in free space, it suffers from	
Option A:	Absorption	
Option B:	Attenuation	
Option C:	Refraction	
Option D:	Super-refraction	
2.	The range of GSM and CDMA technology is and they also have rates and modulation schemes.	
Option A:	Different, different	
Option B:	Same, same	
Option C:	Different, same	
Option D:	Same, different	
3.	The most critical feature of TDMA operation is	
Option A:	Dividing the carrier channel bandwidth into time slots	
Option B:	Assignment of time-slots among multiple subscribers	
Option C:	Time synchronization to the incoming TDMA frame	
Option D:	Providing different access rates to subscribers	
4.	GPRS is an overlay on top of the physical layer and network entities.	
Option A:	AMPS	
Option B:	ETACS	
Option C:	GSM	
Option D:	IS-95	
5.	EDGE is a new radio interface technology with enhanced modulation, and	
	increases the GPRS data rates by up to	
Option A:	three times	
Option B:	four times	
Option C:	six times	
Option D:	eight times	

6.	With a slotted ALOHA random-access protocol, the maximum throughput is of the full channel capacity		
Option A:	18.4%		
Option B:	36.8%		
Option C:	50%		
Option D:	100%		
7.	The normalized bandwidth efficiency of the IS-95 CDMA system is		
Option A:	64 chips/s/Hz		
Option B:	1.35 chips/s/Hz		
Option C:	0.98 chips/s/Hz		
Option D:	0.5 chips/s/Hz		
Орион Б.	0.3 CHIPS/3/ FIZ		
8.	Which of the following is not a WSN topology?		
Option A:	Star		
Option B:	Mesh		
Option C:	Tree		
Option D:	Ring		
9.	WSN needs to be		
Option A:	Fault Tolerant		
Option B:	Adaptable		
Option C:	Recyclable		
Option D:	Both Adaptable and Recyclable		
10.	Which is not the application of VANETs		
Option A:	Platooning		
Option B:	Traffic information systems		
Option C:	Road Transportation Emergency Services		
Option D:	video transmission		
11.	Which of the following is not a measurement parameter for ad-hoc network?		
Option A:	Packet transmission ratio		

Option B:	Routing overhead
Option C:	Hop count
Option D:	Network Data Transmission Speed
12.	Which of the following specifies a set of media access control (MAC) and physical layer specifications for implementing WLANs?
Option A:	IEEE 802.16
Option B:	IEEE 802.3
Option C:	IEEE 802.11
Option D:	IEEE 802.15
13.	HIPER-LAN stands for
Option A:	High Precision Radio Local Area Network
Option B:	High Performance Radio Local Area Network
Option C:	High Precision Radio Land Area Network
Option D:	Huge Performance Radio Link Access Node
14.	is a low data rate wireless networking protocol targeted towards automation and remote-control applications.
Option A:	ZigBee technology
Option B:	Bluetooth technology
Option C:	HR-PAN
Option D:	UMTS
15.	WiMAX and LTE usein uplink and downlink mechanism.
Option A:	Single antenna configuration
Option B:	Double antenna configurations
Option C:	multiple antenna configurations
Option D:	Radio Network configurations

16.	What is the raw channel bit error rate of Bluetooth?
Option A:	10^3
Option B:	10^10
Option C:	10^12
Option D:	10^1
17.	An attack in which the site is not capable of answering valid request.
Option A:	Smurfing
Option B:	Denial of service
Option C:	E-mail bombing
Option D:	Ping storm
18.	provides an isolated tunnel across a public network for sending and receiving data privately as if the computing devices were directly connected to the private network.
Option A:	Virtual Protocol Network
Option B:	Virtual Public Network
Option C:	Virtual Private Network
Option D:	Visual Private Network
19.	Calculate number of APs per group supported by a mobility group made up of 12 4402-25 and 12 4402-50 WLC devices?
Option A:	800
Option B:	900
Option C:	1000
Option D:	1200
20.	The number of APs supported by 'Catalyst 3750G Integrated WLC WS-C3750G-24WS-S25' and 'Catalyst 6500 Series WiSM' respectively are
Option A:	50,100

Option B:	25,300
Option C:	25,100
Option D:	50,300

Q2. (20 Marks Each)		
А	Solve any Two 5 marks each	
i.	Differentiate between different wireless generations, 1G,2G,3G and 4G	
ii.	Explain the design issues of VANET and Justify the importance.	
iii.	What are the challenges in Wireless sensor network?	
В	Solve any One 10 marks each	
i.	Explain wireless multiple access techniques with suitable diagrams	
ii.	Explain Bluetooth Architecture in Detail along with its Advantages.	

Q3		
(20 Marks Each)		
Α	Solve any Two 5 n	narks each
i.	What are the Design Considerations for Campus Wireless N Explain	letworks?
ii.	Compare Mi-Fi and Ly-Fi	
iii.	Explain Virtual Private Network and List different protocols?	
В	Solve any One 10	marks each
i.	Explain in detail WMAN 802.16 WiMAX Technology.	
ii.	What is the difference between a physical channel and a lo Describe types of GSM logical channel.	gical channel?

Course Code: ITC604 and Course Name: Wireless Network

Answer Key

Answer Key		
Question Number	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')	
Q1.	В	
Q2.	A	
Q3.	C	
Q4	C	
Q5	A	
Q6	В	
Q7	C	
Q8.	D	
Q9.	A	
Q10.	D	
Q11.	D	
Q12.	С	
Q13.	В	
Q14.	A	
Q15.	С	
Q16.	A	
Q17.	В	
Q18.	С	
Q19.	В	
Q20.	В	