# K. J. Somaiya Institute of Engineering and Information Technology Sion, Mumbai - 400022

#### NAAC Accredited Institute with 'A' Grade NBA Accredited 3 Programs

(Computer Engineering, Electronics & Telecommunication Engineering and Electronics Engineering)

Permanently Affiliated to University of Mumbai

#### **EXAMINATION TIME TABLE (JANUARY 2021)**

# PROGRAMME - B.E. (Information Technology)(REV-2016) (Choice Based)

#### **SEMESTER - VII**

Days and Dates	Time	Course Code	Paper
Friday, January 08, 2021	03:30 p.m. to 05:30 p.m.	ITC701	Enterprise Network Design
Monday, January 11, 2021	03:30 p.m. to 05:30 p.m.	ITC702	Infrastructure Security
Wedneday, January 13, 2021	03:30 p.m. to 05:30 p.m.	ITC703	Artificial Intelligence
Friday, January 15, 2021	03:30 p.m. to 05:30 p.m.	ITDLO7031	Department Level Optional Course -III: Storage Area Networks
Friday, January 15, 2021	03:30 p.m. to 05:30 p.m.	ITDLO7032	Mobile Application Development
Friday, January 15, 2021	03:30 p.m. to 05:30 p.m.	ITDLO7033	High Performance Computing
Friday, January 15, 2021	03:30 p.m. to 05:30 p.m.	ITDLO7034	Software Testing & Quality Assurance
Friday, January 15, 2021	03:30 p.m. to 05:30 p.m.	ITDLO7035	Soft Computing
Wednesday, January 20, 2021	03:30 p.m. to 05:30 p.m.	ILO7011	Institute Level Optional Course-I :- Product Life Cycle Management
Wednesday, January 20, 2021	03:30 p.m. to 05:30 p.m.	ILO7012	Reliability Engineering
Wednesday, January 20, 2021	03:30 p.m. to 05:30 p.m.	ILO7013	Management Information Systems
Wednesday, January 20, 2021	03:30 p.m. to 05:30 p.m.	ILO7014	Design of Experiments
Wednesday, January 20, 2021	03:30 p.m. to 05:30 p.m.	ILO7015	Operations Research
Wednesday, January 20, 2021	03:30 p.m. to 05:30 p.m.	ILO7016	Cyber Security & Laws
Wednesday, January 20, 2021	03:30 p.m. to 05:30 p.m.	ILO7017	Disaster Management & Mitigation Measures
Wednesday, January 20, 2021	03:30 p.m. to 05:30 p.m.	ILO7018	Energy Audit & Management
Wednesday, January 20, 2021	03:30 p.m. to 05:30 p.m.	ILO7019	Development Engineering

Important Note: • Change if any, in the time table shall be communicated on the college web site.

Mumbai 20th December, 2020. Principal

#### **Examination 2020 under cluster 7 (Lead College: SSJCOE)**

Examinations Commencing from 7th January 2021 to 20th January 2021

Program: **Information Technology** Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ITC701 and Course Name: Enterprise Network Design

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1	The three levers of the CONA framework consists of:
1.	The three layers of the SONA framework consists of:
Option A:	Physical layer, Network layer and Application layer
Option B:	Physical layer, Interactive Services layer and Application layer
Option C:	Networked Infrastructure layer, Interactive Services layer and Data Management layer
Option D:	Networked Infrastructure layer, Interactive Services layer and Application layer
2.	The network design is implemented and verified during which of the following
	phase of building a network.
Option A:	Operate Phase
Option B:	Prepare Phase
Option C:	Design Phase
Option D:	Implement Phase
3.	Decision tables help to making systematic decisions in network design when
Option A:	There are multiple solutions or options to solve a network issue or problem
Option B:	There are large number of end-users or customer who will use network
Option C:	There are problems related to network connectivity
Option D:	There are problems related to network security
4.	Of the following which is not the role of the distribution layer
Option A:	This layer provides the redundant connection to access layer and can perform
	load-balancing for connections.
Option B:	Routing protocols and Route summarizing is implemented at this layer
Option C:	QoS policies and Security measures are implemented at this layer.
Option D:	This layer provides connectivity to end-user devices like Desktops, printers by
	using switched LAN devices ports.
5.	Which of the following is not a part of Enterprise Campus Functional Area
Option A:	Building Distribution
Option B:	E-Commerce Module
Option C:	Campus Core
Option D:	Building Access
6.	A server should be able to maintain the log of all the access, system and security
	events that happen. This is called as
Option A:	Authentication

Option B:	Authorization
Option C:	Accounting
Option D:	Abstraction
7.	Of the following which is not a component of IP Telephony
Option A:	Switches enabled with in line power or PoE switches
Option B:	Call processing Manager
Option C:	Network Hub
Option D:	Voice Gateway
8.	Higher degree of scalability is the requirement of Building layer of
	Campus Network, to enable addition of new end-user devices.
Option A:	Transport
Option B:	Core
Option C:	Network
Option D:	Access
9.	What function is provided by Building Distribution Layer of Campus Network.
Option A:	Assign Port Address
Option B:	Create Threads
Option C:	Traffic Filtration
Option D:	Sub-netting
10.	Which layer of the Cisco Enterprise Data Center Architecture is responsible to
10.	meet all bandwidth, latency and protocol requirements for user to server, server-
	to-server, and server-to-storage connectivity.
O :: 4 : - : : A :	
Option A:	Networked Infrastructure layer
Option B:	Interactive Services layer
Option C:	Business Application layer
Option D:	Collaboration Application Layer
11.	The Range and Bandwidth specifications of Copper Twisted pair cable are
Option A:	Range- up to 100 kilometers and Bandwidth -Up to 100 Gbps
Option B:	Range- up to 100 meters and Bandwidth -Up to 10 Gbps
Option C:	Range- up to 10 kilometers and Bandwidth -Up to 100 Gbps
Option D:	Range- up to 100 kilometers and Bandwidth -Up to 1000 Gbps
12	What is the length of the MDI C label file 1.9
12.	What is the length of the MPLS label filed?

Option B: 24 bits  Option C: 64 bits  Option D: 32 bits  13. An interactive text based application (e.g. Remote Telnet or SSH) required to the state of the state	•
Option D: 32 bits  13. An interactive text based application (e.g. Remote Telnet or SSH) required.	•
13. An interactive text based application (e.g. Remote Telnet or SSH) req	•
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	•
and the state of t	What is the
connectivity between two locations situated in two different cities. V	what is the
expecation of "Throughput" and "Packet Loss Tolerance".	
Option A: Low, Low	
Option B: Low, High	
Option C: High, Low	
Option D: High, High	
14. Which type of queue allows scheduling of the packets in to hardware q	ueue based
on the QoS Requirement?	
Option A: FIFO	
Option B: FIFS	
Option C: LLQ	
Option D: LIFO	
Option B. En o	
15. One of the IPv4-to-IPv6 Transition Strategies is .	
Option A: Dual-Stack Mechanism	
Option B: Compression	
Option C: Redundancy	
Option D: Matrix Mechanism	
16. If one of the locations have 350 machines, then how many minimum	number of
bits would be required.	
Option A: 7	
Option B: 8	
Option C: 9	
Option D: 10	
17. 1892:0000:127B:0000:0000:088C:0001:004B .Compress the IPV6 add	ress.
Option A: 1892:0:127B::88C:1:4B	
Option B: 1892::127B::88C:1:4B	
Option C: 1892:0:127B:0:088C:01:4B	
Option D: 1892:0000:127B::88C:1:04B	
18. RIP is an example ofRouting Protocol.	
Option A: Link State	

Option B:	Distance Vector
Option C:	Hybrid
Option D:	Hierarchical
19.	is a networking Controller that is written in Python.
Option A:	NOX
Option B:	Floodlight
Option C:	POX
Option D:	Ryu
20.	In Cloud computing, the OpenStack Compute is known as
Option A:	Cinder
Option B:	Nova
Option C:	Swift
Option D:	Keystone

Q2 (20 Marks )	
A	Solve any Two 5 marks each
i.	Draw the CISCO SONA Framework. Explain the functionality of each layer in the CISCO SONA framework.
ii.	With a neat diagram, briefly explain the building blocks of SDN architecture.
iii.	An Engineering College requires a highly available core network and uses IP telephony for all its voice communication with all its stakeholders. Which devices and topology would you recommend for the Campus Core design?
В	Solve any One 10 marks each
i.	What is a network audit? If you have to carry network audit for you college network; explain in detail, how will you carry out network audit using the different network audit information sources?
ii.	An organization has a computer terminal with the IP address 200.15.23.40 and subnet mask of 255.255.255.192 a) Identify which class the IP address belong to and why? b) Calculate how many host machines can be connected in one subnet? c) Calculate the total number of the subnets that can be formed? d) Identify the Subnetwork ID and Broadcast ID for above IP address. e) If the subnet mask is changed to 255.255.255.224 then how many

			r	12
subnets	can	ne	torr	ካይጠረ

Q3. (20 Marks )		
A	Solve any Two 5 mark	s each
i.	Explain briefly about the Simple Network Management Protocol	
ii.	Discuss any two techniques to optimize bandwidth in a WAN.	
iii.	What is Route Summarization, explain with help of example.	
В	Solve any One 10 mark	ks each
i.	What is Top – Down Approach to Network Design? Explain the use of	of Top
	- Down approach in network design with an example.	
ii.	Explain the different Enterprise WAN Transport Technologies.	

#### **Examination 2020 under cluster 7 (Lead College: SSJCOE)**

**Examinations Commencing from 7th January 2021 to 20th January 2021** 

Program: INFORMATION TECHNOLGY

Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ITC701 and Course Name: Enterprise Network Design

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

#### **Examination 2020 under cluster ALL (Lead College:SSJCOE)**

Examinations Commencing from 7th January 2021 to 20th January 2021

Program: **Information Technology** Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ITC702 and Course Name: Infrastructure Security

Time: 2 hour Max. Marks: 80

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Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	What do you mean by threat?
Option A:	Any vulnerability in an information technology system
Option B:	Protective controls
Option C:	Multilayered controls
Option D:	Possibility for a source to exploit a specific vulnerability
2.	Models which represent confidentiality preserving MAC (Mandatory Access Control) is?
Option A:	Lattice
Option B:	Bell La-Padula
Option C:	BIBA
Option D:	Clark and Wilson
3.	Which of the following is not a type of authentication method?
Option A:	Password
Option B:	Biometric
Option C:	Captcha
Option D:	PIN
4.	Operating system security describe as -
Option A:	Removing bugs from operating system
Option B:	Protecting memory, I/O devices, shareable data and network connected to the operating system
Option C:	Partitioning the operating system
Option D:	Formatting the operating system
5.	Independent malicious program that need not require any host program is called as?
Option A:	Trap doors
Option B:	Trojan horse
Option C:	Worm
Option D:	Virus

6.	SQL injection is an type of web attack in which code is inserted into strings that are later passed to an instance of SQL Server.
Option A:	Malicious
Option B:	Redundant
Option C:	Clean
Option D:	Non malicious
7.	Which of following are security features of NTFS except -
Option A:	Security Descriptor
Option B:	Encryption
Option C:	Quotas
Option D:	Mount options
8.	Which of the following entity queries the OpenID identity provider to authenticate the veracity of the OpenID credentials?
Option A:	serving party
Option B:	relieving party
Option C:	relaying party
Option D:	Integrity checking
9.	Security service in cloud that ensures data disclosure to authorized users is
Option A:	Secure Data Access
Option B:	Data Confidentiality Assurance
Option C:	Data Integrity Protection
Option D:	Service Audition
10.	is not a use of laaS
Option A:	High -Performance Computing
Option B:	Serverless Computing
Option C:	Web Hosting and Web Apps
Option D:	Storage, backup and recovery
11.	Which of the following is use to protect systems from DOS attacks and also help
	in loading the web pages .
Option A:	Content Delivery Network
Option B:	Web Application Firewall
Option C:	Authentication
Option D:	Intrusion Detection System.
12.	Which of the following is NOT a mobile device security strategy
Option A:	Leverage Biometrics
Option B:	Remote Lock and Data Wipe
Option C:	Use of 4G Communication Standards
Option D:	Block Potentially Dangerous Apps

Select the Strategy in which an enterprise/Individual has an ability to either remotely lock or erase all data stored on device  Option A: Remote Lock and Data Wipe Option B: Personal Vault Option C: Device Liability Option D: Potential Block  14. After entering how many times wrong PIN number SIM card gets blocked.  Option A: 2 Option B: 3 Option C: 5 Option D: 10  15. What information is stored in cookies. Option A: Session ID Option A: Account Privileges Option C: UserName Option D: Password  16. In which of the following exploits does an attacker insert malicious code into a link that appears to be from a trustworthy source?  Option B: Buffer over flows Option D: Command injection Option D: Path traversal attack  17 is not covered in IT Ethics issue.  Option A: Virus Option A: Virus Option C: Spyware Option C: Spyware Option C: Spyware Option C: Distribution of malicious code Option D: Packet sniffing  18. Which activities is not considered a valid form of penetration testing? Option D: DoS attacks Option D: DoS attacks Option D: Dos attacks Option D: Users are forced to use a second server which causes the attack Option D: Users are forced to use a second server which causes the attack takes place Option D: Users are forced to divert to a fake site where the attack takes place Option D: Users are forced to divert to a fake site where the attack takes place Option D: Users are fololed by similar GUI and data is extracted from them. Option D: Users are fololed by similar GUI and data is extracted from them. Option D: Users are fololed by similar GUI and data is extracted from them.		
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20. Which of the following is appropriate for customer emails regarding a limited		·
	Option D:	User are diverted to new website of same company.
time promotional offer?	20.	
		time promotional offer?

Option A:	Request that the user authenticate him/herself by replying to the email with their account credentials.
Option B:	Personalized greeting line
Option C:	Providing easy access to the customer's account via a "Click Here" style link
Option D:	Sending the email from a domain set up specifically for the special offer

Q2	Solve any Four out of Six 5 marks each
A	What is buffer overflow vulnerability, what way it could be exploited to harm the system.
В	Explain the processing of the information so as to achieve its confidentiality, integrity and non-repudiation.
С	Explain various security algorithms used in GSM architecture.
D	Describe various risk associated with cloud.
Е	www.irctc.com website uses SSL or SET protocol or both, Justify your answer with proper justification.
F	Explain ethical issues in security management.

Q3.	Solve any Two Questions out of Three 10 marks each
A	What is a firewall? List the type of firewalls categorized by processing mode. Draw a schematic diagram of a packet filtering router used as a firewall and explain its function using a sample firewall rule.
В	Explain the programming flaws in the various components of a web application that leads to the SQL injection vulnerability. Also discuss the countermeasures.
С	Explain the logical and physical attacks on Wireless LAN.

#### **Examination 2020 under cluster ALL (Lead College: SSJCOE)**

Examinations Commencing from 7th January 2021 to 20th January 2021

#### Program: INFORMATION TECHNOLGY

Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ITC702 and Course Name: Infrastructure Security

Time: 2 hour Max. Marks: 80

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

#### **Examination 2020 under cluster ALL (Lead College: <u>SSJCOE</u>)**

Examinations Commencing from 7th January 2021 to 20th January 2021

Program: **Information Technology** Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ITC703 and Course Name: Artificial Intelligence

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1	
1.	AI practices solve the hard problems in time by domain knowledge.
Option A:	Polynomial, exploring
Option B:	Polynomial, exploiting
Option C:	Non-polynomial, exploring
Option D:	Non-polynomial, exploiting
2.	In AI program he, generated a plan to drive to the airport to catch a plane.
Option A:	McCarthy's
Option B:	David Waltz's
Option C:	Marvin Minsky's
Option D:	McCulloch's
3.	In total Turing Test, which of the following conchilities were not included
Option A:	In total Turing Test, which of the following capabilities were not included.  Robotics
Option B:	Computer Vision
Option C:	Game Playing
Option D:	NLP
Option D.	NLI
4.	The don't get benefited by perspective and global viewpoint, they can see only
	node in the search space.
Option A:	Search Algorithms
Option B:	Machine Learning Algorithms
Option C:	Fuzzy Algorithms
Option D:	Neural Network Algorithms
5.	Which statement is true: I: Iterated Hill Climbing algorithm has the same space requirement as Hill Climbing II: Both need a constant amount of space to run.
Option A:	Only I
Option B:	Only II
Option C:	I and II
Option D:	I and II are false
6.	In prisoner's Dilemma, what is the rational choice for both the players?
Option A:	Confess

Option B:	Deny
Option C:	Telling lies
Option D:	Keep mum
1	
7.	In a complex game which has very large search tree, the is applied to,
	because we cannot evaluate full tree.
Option A:	Evaluation function, Goal node
Option B:	Evaluation function, Intermediate node
Option C:	Objective function, Leaf node
Option D:	Objective function, Root node
8.	Which property of the Heuristic function guarantees to find optimal path.
Option A:	Admissibility
Option B:	Monotone
Option C:	Completeness
Option D:	Optimality
9.	Every cat has a tail, can be represented as
Option A:	$\exists x \text{ has } (x, \text{tail})$
Option B:	$\forall x \text{ has } (x, \text{ tail})$
Option C:	$\exists x \ cat(x) \rightarrow has \ (x, tail)$
Option D:	$\forall x \ cat(x) \rightarrow has \ (x, tail)$
10.	The symbolization of a disjunction is
Option A:	$p \rightarrow q$
Option B:	p & q
Option C:	p v q
Option D:	~ p
11	Which get of motheds are used for information in first and an locic?
Option A:	Which set of methods are used for inferencing in first order logic?  Forward reasoning, backward reasoning and joint probability.
	Left reasoning, right reasoning and resolution.
Option B: Option C:	Minmax reasoning and pruning.
Option C:	Forward reasoning, backward reasoning and resolution.
Option D.	Polward reasoning, backward reasoning and resolution.
12.	In real life problem solving, plans are
Option A:	Only Total order
Option B:	Only Partial order
Option C:	Combination of all types
Option D:	Only conditional
,	
13.	In general, resolution refutation uses
Option A:	AND-OR graphs
Option B:	Only AND graphs
Option C:	Only OR graphs
Option D:	Cyclic graphs
14.	Which of the following is a feature of quantifiers?
Option A:	Universal quantifier is used to get exact number of entities.

Option B:	Negation of Existential quantifier means the number of entities is zero.
Option C:	Existential quantifier is negation of Universal quantifier.
Option D:	Existential quantifier is used to get exact number of entities.
opnon B.	Existential quantities is used to get exact number of entities.
15.	Uncertainty means
Option A:	that many of the simplifications that are possible with deductive inference are no
option 71.	longer valid.
Option B:	that many of the simplifications that are possible with deductive inference are
F	always valid.
Option C:	Probability = 1
Option D:	Possibilities with guarantee
•	
16.	Bayes' rule allows
Option A:	known probabilities to be computed from unknown, stable ones.
Option B:	unknown probabilities to be computed from known, stable ones.
Option C:	Distance calculation
Option D:	Logarithmic Differential
•	<u> </u>
17.	Which of the following is an application of NLP
Option A:	Email spam filtering
Option B:	Map coloring
Option C:	OLTP Transaction
Option D:	Resource allocation
18.	Which of the following is a Natural Language Processing stage?
Option A:	Query optimization
Option B:	Crypt Arithmetic
Option C:	Datatype casting
Option D:	Syntactic analysis
_	
19.	Which of the following concepts make a system cognitive?
Option A:	Random learning
Option B:	Syntax definition
Option C:	contextual insight from the model
Option D:	Data extraction
20.	What is Corpus?
Option A:	Unorganized files of a particular domain
Option B:	Unorganized files generalized to all domains
Option C:	A machine-readable representation of the complete record of a particular domain
	or topic
Option D:	Infinite list of words that are logically unordered.

Q2.	Solve any Two Questions out of Three 10 ma	rks each
A	What is AI? Considering the COVID-19 pandemic situation, how AI helped to survive and renovated our way of life with different applications?	
В	1. Convert the following to predicates:	6 marks
	a. Anita travels by Car if available otherwise travels by bus.	

	b. Bus goes via Andheri and Goregaon.
	c. Car has puncture so is not available.
	2. Will Anita travel via Goregaon? Use forward reasoning. 4 marks
С	Demonstrate Bayes Theorem using Conditional Probability? Out of 5000 patients how many with stiff necks are suffering with meningitis if the following facts are known:  1. Meningitis causes patients to have stiff neck 50% of the time.  2. Probability of person having meningitis is 1/50000.  3. Every 1 out of 20 patients has stiff neck.

Q3.	Solve any Two Questions out of Three 10 m	arks each
A	If you know the strategy of the opponent player, you can estimate all hi correctly. Is the above statement True or False in context of game of Ch your answer.	
В	<ol> <li>Explain the working of hierarchical plan with an example.</li> <li>marks</li> <li>Plan and explain Air Cargo Transport from Delhi to Mumbai.</li> <li>marks</li> </ol>	5 5
С	Explain tokenization, stemming and lemmatization with example.	

# University of Mumbai Examination 2020 under cluster ALL (Lead College: <u>SSJCOE</u>)

Examinations Commencing from 7th January 2021 to 20th January 2021

Program: INFORMATION TECHNOLGY

Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ITC703 and Course Name: Artificial Intelligence

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

#### **Examination 2020 under cluster ALL (Lead College:SSJCOE)**

Examinations Commencing from 7th January 2021 to 20th January 2021

Program: **Information Technology** Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ITDLO7031 and Course Name: SAN

Q1.	Choose the correct option for following questions. All the Questions are
	compulsory and carry equal marks
1.	in ISS, the cache is used between FE and BE for
Option A:	fast data transfer
Option B:	data storage
Option C:	data security
Option D:	data compression
2.	information life cycle is
Option A:	change in the volume of information over a period of time
Option B:	change in value of information over a period of time
Option C:	availability of information storage space over a period of time
Option D:	amount of information processed over a period of time
3.	the three techniques used to define the RAID level are
Option A:	replication,mirroring,segmentation
Option B:	replication duplication,backup
Option C:	striping, mirroring, parity
Option D:	striping, segmentation, parity,
4.	what is not a physical component of the hard disk
Option A:	Sectors
Option B:	Tracks
Option C:	Head
Option D:	Cylinder
5.	NFS file sharing protocol is used for which OS?
Option A:	UNIX
Option B:	WINDOWS
Option C:	LINUX
Option D:	MAC
6.	In a NAS solution, external and dedicated storage can be used.
Option A:	low-end
Option B:	low-high
Option C:	high-end
5 pt. 5 i	
Option D:	high-low

7.	An NAS device has all the components of NAS, such as the NAS head		
	and storage, in a single enclosure, or frame		
Option A:	Integrated		
Option B:	Gateway		
Option C:	Integral		
Option D:	Simple		
8.	The technology that offers best performance is		
Option A:	DAS		
Option B:	SAN		
Option C:	NAS		
Option D:	CAS		
9.	Which one is a major classification of zoning?		
Option A:	Freeware		
Option B:	Soft		
Option C:	Hard		
Option D:	Software		
10.	Which type of storage does hyper-converged infrastructure (HCI) more closely		
	resemble?		
Option A:	NAS		
Option B:	DAS		
Option C:	CAS		
Option D:	SAN		
11.	SCSI stands for		
Option A:	Small Computer System Interface		
Option B:	Small Computer System Interconnect		
Option C:	System Computer System Interconnect  System Computer Select Interface		
Option D:	Small Computer Simple Interface		
Option D.	Sman Compact Simple interface		
12.	user access information required for workload analysis is		
Option A:	number of transaction, time period and expected service level		
Option B:	number of incomplete transactions, their reasons and their cost		
Option C:	number of wrong transactions, their cost and location		
Option D:	number of bugs detected, their locations and solution provided		
13.	what makes the web transactional workload solutions more complex		
Option A:	distributed nature of the web		
Option B:			
Option C:	client server model type		
Option D:	number of web pages		
- F - 2	r		
14.	the data organizational model of NAS for departmental workload has		
Option A:	the data organizational model of NAS for departmental workload has client based system		
Option B:	block level data transfer system		
Option C:	file level data transfer system		
Option C.	intelligent information system		
<u> Ծ</u> րոսու D.	I menigent imornation system		

15.	information life cycle has number of phases		
Option A:	7		
Option B:	4		
Option C:	6		
Option D:	5		
16.	Which protocols are used for Storage management		
Option A:	POPv		
Option B:	SNMP		
Option C:	LDAP		
Option D:	POP3		
17.	Of which process should Business Continuity programs be a part?		
Option A:	Incident Management process		
Option B:	Compliance process		
Option C:	Governance process		
Option D:	Problem Management process		
18.	What is the most common technique used for finding duplicate blocks/data?		
Option A:	Bit-for-bit comparisons on all new blocks		
Option B:	Encryption		
Option C:	Hashing and fingerprinting		
Option D:	Storing all blocks		
19.	Which of the following capacity optimization technologies is being described:		
	Space is allocated to volumes on-demand as data is written to the volume?		
Option A:	Deduplication		
Option B:	Compression		
Option C:	Auto-tiering		
Option D:	Thin Provisioning		
20			
20.	Clients use which protocol to discover SMI Agents on Storage Area Network?		
Option A:	SLP (Service Location Protocol)		
Option B:	AGP(Agent Discovery Protocol)		
Option C:	SMIP (SMI Protocol)		
Option D:	SIP		

Q2 (20 Marks)	Solve any Four out of Six 5 marks each
A	draw and explain nested RAIDs with any application
В	How does the use of jumbo frames affect the NAS performance?
С	Explain FC ports and login types.
D	explain rotational latency, seek time and transfer rate in case of HDD
Е	Explain failure analysis for Business Continuity and explain Business Continuity

-	F	explain the concept of workload characterization
- 1	1	explain the concept of workload characterization

Q3	Solve any Four Questions out of Six	5 marks each
(20 Marks)		
A	what information is provide by the data organizational behavior	model for workload
В	Describe the NAS implementation.	
С	What is zoning? Discuss a scenario, where soft zoni hard zoning	ng is preferred over
D	explain how parity is used in RAID memory	
Е	Explain storage security domain and implementation in storage	age networking
F	explain the various characteristics of a data centre	

#### **Examination 2020 under cluster ALL (Lead College: SSJCOE)**

Examinations Commencing from 7th January 2021 to 20th January 2021

#### Program: INFORMATION TECHNOLOGY

Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ITDLO7031 and Course Name: SAN

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

#### **Examination 2020 under cluster ALL (Lead College: SSJCOE)**

Examinations Commencing from 7th January 2021 to 20th January 2021

Program: **Information Technology** Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ITDLO7032 and Course Name: Mobile Application Development

Q1.	Choose the correct option for the following questions. All the questions are compulsory and carry equal marks (40 Marks)
1.	What is NOT a part of Android's native libraries?
Option A:	OpenGL
Option B:	SQLite
Option C:	Dalvik
Option D:	Webkit
2.	Which of the following contains all the code that provides the main features of an Android OS?
Option A:	Linux kernel
Option B:	Libraries
Option C:	Android runtime
Option D:	Application
3.	To create an emulator, you need an AVD. What does it stand for?
Option A:	Android Virtual Display
Option B:	Android Virtual Device
Option C:	Active Virtual Device
Option D:	Application Virtual Display
4.	Which of the following events is not defined by the Activity class.
Option A:	onCreate()
Option B:	onStart()
Option C:	onFinish()
Option D:	onDestroy()
5.	Which among the following widget toolbox control is used to perform a standard
	push-button operation.
Option A:	ToggleButton
Option B:	Button
Option C:	RadioButton
Option D:	ImageButton
6.	What is contained within the Layout XML file?
Option A:	Orientations and layouts that specify what the display looks like.

Option B:	The permissions required by the app		
Option C:	The strings used in the app.		
Option D:	The code which is compiled to run the app.  The code which is compiled to run the app.		
option B.	The code which is complied to full the upp.		
7.	Android does not support the following ViewGroups (Layouts).		
Option A:			
Option B:	FrameLayout		
Option C:	TableLayout		
Option D:	StackLayout		
8.	What is a mechanism that lets anonymous application components service action		
	requests?		
Option A:	explicit Intent		
Option B:	implicit Intent		
Option C:	activity		
Option D:	Application		
9.	What is the name of the class used by Intent to store additional information?		
Option A:	Extra		
Option B:	Parcelable		
Option C:	Bundle		
Option D:	Datastore		
1.0			
10.	Which techniques can be used to minimize your application's battery cost.		
Option A:	Create a new connection every time		
Option B:	Reuse existing connections rather than creating new ones		
Option C:			
Option D:	on D: Report a bug		
11.	What is a helper class that creates hyperlinks within the Text View?		
Option A:	Activity		
Option B:	Button		
Option C:	TextView		
Option C.	Linkify		
<u> Ծրոսու                                   </u>	Liikity		
12.	Will all MONT. I also		
	What is JSON in android?		
Option A:	Java Script Object Native		
Option B:	Java Script Oriented Notation		
Option C:	Java Script Object Notation		
Option D:	Java Script Open Notation		
13.	Status data will be exposed to the rest of the Android system via		
Option A:	Intent		
Option B:	A content provider		
Option C:	Network receivers		
Option D:	Altering permissions		
14.	Each SQLite database query is returned as a .		
Option A:	Content Values		

Option B:	Cursor		
Option C:	Content Providers		
Option D:	Applications		
1			
15.	What are used to insert new rows into the table?		
Option A:	Content Values		
Option B:	Intents		
Option C:	Activity		
Option D:	Content Provider		
16.	Which of the following network protocol is not supported for streaming media?		
Option A:	RTSP (real time streaming protocol)		
Option B:	HTTP/HTTPS progressive streaming		
Option C:	HTTP/HTTPS live streaming		
Option D:	FTP		
17.	Which is not a valid resource for loading audio files?		
Option A:	res/raw resource folder		
Option B:	local file		
Option C:	online audio resource		
Option D:	Bluetooth		
18.	The Media Player also provides the method to find the length of the		
	media being played.		
Option A:	getDuration		
Option B:	getCurrentPosition		
Option C:	seekTo		
Option D:	setMediaController		
19.	What is BusyBox in android?		
Option A:	a collection of command line tools		
Option B:	network scanner tool		
Option C:	network sniffer tool		
Option D:	packet capturing tool		
20.	Following are the four stages of the pen test		
Option A:	Discovery-planning-attack-reporting		
Option B:	planning-discovery-reporting-attack		
Option C:	planning-discovery-attack-reporting		
Option D:	attack -discovery-planning-reporting		

Q2	Solve any Two Questions out of Three 10 marks each	
A	With a neat diagram, show the major components of the Android stack.	
В	How View and ViewGroup are used for developing android applications?	
С	What is an Intent object? What information Intent object consists of? Explain different types of intents along with their usage.	

Q3	Solve any Two Questions out of Three	10 marks each
A	List various data storage options. What is SQLite dand explain code to create a database of your choice code related to creating database only)	
В	Explain the Camera API in Android with suitable exa	amples.
С	What are the steps required to publish a mobile App's	?

#### **Examination 2020 under cluster ALL (Lead College: SSJCOE)**

Examinations Commencing from 7th January 2021 to 20th January 2021

Program: INFORMATION TECHNOLOGY

Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ITDLO7032 and Course Name: Mobile Application Development

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

#### **Examination 2020 under cluster ALL (Lead College: SSJCOE)**

Examinations Commencing from 7<sup>th</sup> January 2021 to 20<sup>th</sup> January 2021

Program: **Information Technology** Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ITDLO7033 and Course Name: High Performance Computing

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	If the time taken by the processor to access any memory word in the system is identical, then it is called asmulticomputer.
Option A:	synchronous memory access
Option B:	uniform memory access
Option C:	non-uniform memory access
Option D:	asynchronous memory access
2.	Which of the following interconnection network results in higher cost (number of communication links)?
Option A:	2D wraparound mesh
Option B:	Complete binary tree
Option C:	Star
Option D:	Completely connected
3.	In which of the following, inter process communication takes place?
Option A:	Shared memory
Option B:	Nonshared memory
Option C:	Message passing
Option D:	Synchronous memory
4.	SIMD machines are inherentlyin nature.
Option A:	Fast
Option B:	Asynchronous
Option C:	Synchronous
Option D:	Cost efficient
5.	The maximum number of tasks that can be executed at any time in a parallel algorithm is called as
Option A:	Degree of concurrency
Option B:	Speedup
Option C:	Efficiency
Option D:	Rate of processing

6.	Fat tree-based network is a special case of tree network.
Option A:	Static tree network
Option B:	Dynamic tree network
Option C:	Linear array network
Option D:	Star connected network
7.	Which of the following does not contribute to calculation of communication latency
Option A:	Startup time
Option B:	Pre-hop time
Option C:	Pre-word transfer time
Option D:	Processing time
8.	Which of the following is not true with respect to deterministic routing
Option A:	It does not use information regarding the state of the network.
Option B:	It is special case of adaptive routing.
Option C:	XY routing is deterministic routing for 2D mesh.
Option D:	E-cube routing is deterministic routing for hypercube.
9.	Omega network is interconnection network.
Option A:	Single stage
Option B:	Multistage
Option C:	Crossbar
Option D:	Bus based
10.	Data parallel programming utilizes data allocation.
Option A:	Implicit
Option B:	Explicit
Option C:	Semi explicit
Option D:	Implicit or semi-implicit
opiion 2.	
11.	Which of the following is not a characteristic of task?
Option A:	Task generation
Option B:	Task size
Option C:	Size of data associated with tasks
Option D:	Interdependencies among tasks
12.	15-puzzle problem is an example of
Option A:	Recursive decomposition
Option B:	Exploratory decomposition
Option C:	Data decomposition
Option D:	Speculative decomposition
13.	Shared variable parallel programming model possesses which of the flowing synchrony?
Option A:	Asynchronous

Option B:	Synchronous
Option C:	Loosely Synchronous
Option D:	Loosely Asynchronous
Option B.	Loosery Asylicinolous
14.	If 25% of the operations in a parallel program must be performed sequentially,
11.	what is the maximum speedup achievable?
Option A:	25
Option B:	8
Option C:	4
Option D:	2
15.	Which of the following static network topology results into minimum diameter
Option A:	Star
Option B:	Completely connected
Option C:	Complete binary
Option D:	2D Mesh
16.	In this cache system, all processors monitor the bus for transaction
Option A:	CPU cache
Option B:	RAM cache
Option C:	Register cache
Option D:	Snoopy Cache
17.	For which of the following architecture data parallel model cannot be applied
Option A:	SIMD
Option B:	SIMT
Option C:	SPMD
Option C:	MIMD
Option D.	WIND
18.	The primary and essential mechanism to support the sparse matrices is
Option A:	Gather operations
Option B:	Gather-scatter operations
Option C:	Scatter operations
Option D:	Gather-scatter technique
	<u>'</u>
19.	CUDA does not support this type of parallelism.
Option A:	Thread
Option B:	Data
Option C:	Block
Option D:	Vector
20.	CUDA stand for
Option A:	Compute Ubiquitous Device Architecture
Option B:	Compute Unit Data Architecture
Option C:	Compute Unified Device Architecture
Option D:	Compute Unit Device Architecture

Q2.	Solve any Four out of Six 5 marks each
A	Compare the principles of data flow computers and control flow computers.
В	Write a short note on Memory organization.
С	What is meant by grain packing and scheduling in parallel processing?
D	Give the advantages non-uniform memory access model.
Е	What is Granularity, Concurrency and Dependency Path?
F	State principles of Message Passing Programming?

Q3.	Solve any Two Questions out of Three	10 marks each
A	Derive the expression for speedup and efficiency by Amdah on the same. Assume suitable data if required.	's law and comment
В	Define CUDA? Explain in CUDA processor architecture?	
C	Write a MPI program for prime number generation.	

#### **Examination 2020 under cluster ALL (Lead College: SSJCOE)**

Examinations Commencing from 7th January 2021 to 20th January 2021

Program: INFORMATION TECHNOLOGY

Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ITDLO7033 and Course Name: High Performance Computing

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

Q.2

- a) At least 5 comparison points- 1 Mark each
- b) Memory organization Diagram 2 Marks, explanation of parallelization support- 3 Marks
- c) Grain Packing explanation 2 Marks, Scheduling explanation 3 Marks
- d) At least 5 advantages- 1 Mark each
- e) Granularity, Concurrency, Dependency Path- Definition- 3 Marks, Example- 2 Marks
- f) All principles- 5 Marks

Q 3

- a) Derivation of speedup and efficiency- 5 Marks each
- b) Definition- 2 Marks, Architecture diagram- 4 Marks, explanation- 4 Marks
- c) Program with correct logic and MPI primitives- 10 marks

#### **Examination 2020 under cluster 7 (Lead College: SSJCOE)**

Examinations Commencing from 7<sup>th</sup> January 2021 to 20<sup>th</sup> January 2021

Program: **Information Technology** Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ITDLO7034 and Course Name: Software Testing and Quality Assurance

Time: 2 hour Max. Marks: 80

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Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	In the testing scenario, you need to compare the final system with the needs of customers that are agreed upon, what is this called?
Option A:	Functional Testing
Option B:	Integration Testing
Option C:	Acceptance Testing
Option D:	System Testing
2.	Static and Dynamic testing are part of
Option A:	Testing strategy
Option B:	Testing techniques
Option C:	Testing tactics
Option D:	Testing tools
3.	The inability of a system or component to perform a required function according to its specification is called as
Option A:	Failure
Option B:	Bug
Option C:	Fault
Option D:	Error
4.	activity does not require software measurement
Option A:	Development
Option B:	Understanding
Option C:	Control
Option D:	Improvement
5.	What is the meaning of term "Timeboxed" in Agile method?
Option A:	Frequent
Option B:	Flexible
Option C:	Fixed

Option D:	Fast
6.	Final desirion for selection of automation tool will depend on
0.	Final decision for selection of automation tool will depend on
Option A:	cost
Option B:	balancing cost and benefit, awareness of tool
_	
Option C:	selection of any tool without awareness
Option D:	selecting any free software
7.	Which are the components of a testing strategy?
/.	which are the components of a testing strategy:
Option A:	Verification and Validation
Option B:	Test Planning and execution
Option C:	Test factor and test phase
Option D:	Testing Tactics and techniques
8.	Boundary Value analysis technique is considered a technique that uncovers the bugs at
Option A:	the median of input data set
Option B:	the end of output
Option C:	at the boundary of output
Option D:	At the boundary of input values
9.	A node with more than one arrow leaving it is called a .
Option A:	Decision node
Option B:	Junction node
Option C:	Region
Option D:	Complex node
•	•
10.	Which of the McCall's Quality Criteria means the ability to link software components to requirements?
Option A:	Simplicity
Option B:	Generality
Option C:	Conciseness
Option D:	Traceability
11.	Types of Performance Testing
Option A:	Load, Stress, Capacity
Option B:	Controller, Analysis
	·
Option C:	Launcher, Load Generator
Option D:	Analysis, Load Generator
12	Which type of test plan is designed in the High level design whose?
12.	Which type of test plan is designed in the High level design phase?

Option A:	Acceptance Test plan
Option B:	System Test Plan
Option C:	Function and Integration Test Plan
Option D:	Unit test Plan
•	
13.	If the outputs are not according to the standards or conventions, then it is
Option A:	Critical bugs
Option B:	Major bug
Option C:	Medium bugs
Option D:	Minor bugs
14.	How is the acceptance testing performed in Agile approach?
Ontion A:	Whenever customer demands
Option A: Option B:	Once the system is complete
Option C:	Daily
Option D:	After each iteration
option B.	The cum returns
15.	As per the guidelines for defining equivalence classes, if an input condition requires a
	specific value then how many equivalence classes are defined?
Option A:	Two valid and one invalid
Option B:	One valid and two invalid
Option C:	One valid and one invalid
Option D:	Two valid and two invalid
16.	Selenium supports Mobile Web Applications &
Option A:	Desktop Applications
Option B:	Computer Web Applications
Option C:	Mobile Native Applications
Option D:	Mobile Hybrid Applications
option B.	THEODIC TRYOTIC TRYOTIC
17.	For 'n' variables how many test cases can be designed using Boundary Value Checking method?
Option A:	6n+1
Option B:	4n+1
Option C:	6n-1
Option D:	$4n + \log (n+1)$
1	
18.	Which is not the measure to assess a web application?
Option A:	Maintainability
Option B:	Usability
Option C:	Navigability
Option D:	The content
19.	When the test leader approves that the bug is genuine, its state becomes

Option A:	New
Option B:	Open
Option C:	Closed
Option D:	Deferred
20.	The objective of any test case is
Option A:	To have minimum coverage and capability to discover more and more errors.
Option B:	To have maximum coverage and capability to discover more and more errors.
Option C:	To have minimum coverage and capability to discover less errors.
Option D:	To have maximum coverage and capability to discover less errors.

Q2 (20 Marks Each)	Solve any Two Questions out of Three 10 marks each Please delete the instruction shown in front of every sub question
A	A program calculates the total salary of an employee with the conditions that if the working hours are less than or equal to 52, then give normal salary. The hours over 52 on normal working days are calculated at the rate of 1.20 of the salary. However, on holidays or Sundays, the hours are calculated at the rate of 2.50 times of the salary. Design test cases using decision table testing
В	Explain the difference between Quality Assurance (QA) and Safety Assurance (SA) from the perspective of your project and which one you will prefer.
С	Explain the differences between software testability and reliability? Which one is more important from your project point of view? Justify your answer.

Q3 (20 Marks Each)	Solve any Two Questions out of Three 10 marks each Please delete the instruction shown in front of every sub question
A	Explain challenges faced in testing for web based system
В	Explain ISO-9000-2000 requirements for software quality management
С	Why regression testing is so important while developing a new software release. Which test cases from the test suite would be more useful in performing a regression test?

## **Examination 2020 under cluster 7 (Lead College: SSJCE)**

Examinations Commencing from 7th January 2021 to 20th January 2021

Program: INFORMATION TECHNOLGY

Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ITDLO7034 and Course Name: Software Testing and Quality Assurance

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

## **Examination 2020 under cluster ALL(Lead College: SSJCOE)**

Examinations Commencing from 7th January 2021 to 20th January 2021

Program: **Information Technology** Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ITDLO7035 and Course Name: Soft Computing

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	Consider two fuzzy sets, $A = \{0.2/x1 + 0.3/x2 + 0.4/x3 + 0.7/x4 + 0.1/x5\}$ and $B = \{0.2/x1 + 0.3/x2 + 0.4/x3 + 0.7/x4 + 0.1/x5\}$
	$\{0.4/x1 + 0.5/x2 + 0.6/x3 + 0.8/x4 + 0.9/x5\}$ . Lambda-cut for Intersection of
	fuzzy set A & B for lambda=0.5 is
Option A:	{x4}
Option B:	{x5}
Option C:	{x3, x4}
Option D:	{x4, x5}
2.	Hebbian learning rule is
Option A:	Supervised learning
Option B:	
Option C:	Semi – supervised learning
	Unsupervised learning
Option D:	Error correction based learning
3.	The height $h(F)$ of a fuzzy set F is defined as $h(F) = \sup F(x)$ where x belongs to F.
3.	Then the fuzzy set F is defined as $n(F)$ –sup $F(x)$ where x belongs to F.  Then the fuzzy set F is called normal when
Option A:	h(F)<0
Option B:	h(F)=1
Option C:	h(F)<1
Option D:	h(F)=0
opuon 2.	
4.	Projection operation on binary fuzzy relation results in
Option A:	Fuzzy set
Option B:	Crisp set
Option C:	Universal set
Option D:	Empty set
5.	Precise Fuzzy modelling is characterized by
Option A:	High interpretability and high accuracy
Option B:	Low interpretability and low accuracy
Option C:	High interpretability but low accuracy
Option D:	Low interpretability but high accuracy

6.	Select the correct learning type in which the teacher returns reward and
	punishment to learner so that it helps learner to improve at every stage of
	learning.
Option A:	Reinforcement learning
	Active learning
Option C:	Unsupervised learning
Option D:	Supervised learning
	Designing a fuzzy logic machine include sequence of steps as
	Rule evaluation->Fuzzification->Defuzzification
<u> </u>	Fuzzy Sets->Defuzzification->Rule evaluation
	Fuzzification->Rule evaluation->Defuzzification
Option D:	Defuzzification->Rule evaluation->Fuzzification
	Select the correct match from the following
Option A:	chromosome->individual, gene-> bits, Alleles-> Feature, crossover->mutate,
	Phonotype->encoded structure
1 * 1	chromosome->individual, gene-> bits, Locus-> Position of gene,
	Phonotype->decoded structure  chromosome->individual, gene-> bits, Alleles-> Feature extract,
1 - 1	crossover->mutate, Phonotype->encoded structure
	chromosome->individual, gene-> bits, Alleles-> Feature evaluate,
1 1	crossover->mutate, Phonotype->encoded structure
	crossover - matate, r nonotype - encoded structure
9.	Select the technique which is used as Pre-processing step to process on image
Option A:	Zoning
	Error root mean square
Option C:	Elitism
Option D:	Skew Correction
1	To select fitter candidates over weaker candidates which of the following
	<del>-</del>
Option A:	strategies used
	strategies used Roulette Wheel, Steady state, Elitism, circle selection
Option B:	strategies used Roulette Wheel, Steady state, Elitism, circle selection Roulette Wheel, Tournament ,Rank, Steady state, Elitism
Option B: Option C:	Roulette Wheel, Steady state, Elitism, circle selection Roulette Wheel, Tournament ,Rank, Steady state, Elitism Tournament ,Rank, Steady state, Elitism, differential selection
Option B: Option C:	strategies used Roulette Wheel, Steady state, Elitism, circle selection Roulette Wheel, Tournament ,Rank, Steady state, Elitism
Option B: Option C: Option D:	Roulette Wheel, Steady state, Elitism, circle selection Roulette Wheel, Tournament ,Rank, Steady state, Elitism Tournament ,Rank, Steady state, Elitism, differential selection Roulette Wheel, oval selection ,Steady state, Elitism
Option B: Option C: Option D:	Roulette Wheel, Steady state, Elitism, circle selection Roulette Wheel, Tournament ,Rank, Steady state, Elitism Tournament ,Rank, Steady state, Elitism, differential selection Roulette Wheel, oval selection ,Steady state, Elitism  What are the general tasks that are performed with backpropagation algorithm?
Option B: Option C: Option D:  11. Option A:	Roulette Wheel, Steady state, Elitism, circle selection Roulette Wheel, Tournament ,Rank, Steady state, Elitism Tournament ,Rank, Steady state, Elitism, differential selection Roulette Wheel, oval selection ,Steady state, Elitism  What are the general tasks that are performed with backpropagation algorithm? Clustering and Prediction
Option B: Option C: Option D:  11. Option A: Option B:	strategies used Roulette Wheel, Steady state, Elitism, circle selection Roulette Wheel, Tournament ,Rank, Steady state, Elitism Tournament ,Rank, Steady state, Elitism, differential selection Roulette Wheel, oval selection ,Steady state, Elitism  What are the general tasks that are performed with backpropagation algorithm? Clustering and Prediction Clustering and Analysis
Option B: Option C: Option D:  11. Option A: Option B: Option C:	Roulette Wheel, Steady state, Elitism, circle selection Roulette Wheel, Tournament ,Rank, Steady state, Elitism Tournament ,Rank, Steady state, Elitism, differential selection Roulette Wheel, oval selection ,Steady state, Elitism  What are the general tasks that are performed with backpropagation algorithm? Clustering and Prediction Clustering and Analysis Analysis and clustering
Option B: Option C: Option D:  11. Option A: Option B: Option C:	strategies used Roulette Wheel, Steady state, Elitism, circle selection Roulette Wheel, Tournament ,Rank, Steady state, Elitism Tournament ,Rank, Steady state, Elitism, differential selection Roulette Wheel, oval selection ,Steady state, Elitism  What are the general tasks that are performed with backpropagation algorithm? Clustering and Prediction Clustering and Analysis
Option B: Option C: Option D:  11. Option A: Option B: Option C: Option C:	Roulette Wheel, Steady state, Elitism, circle selection Roulette Wheel, Tournament ,Rank, Steady state, Elitism Tournament ,Rank, Steady state, Elitism, differential selection Roulette Wheel, oval selection ,Steady state, Elitism  What are the general tasks that are performed with backpropagation algorithm? Clustering and Prediction Clustering and Analysis Analysis and clustering Prediction and function approximation
Option B: Option C: Option D:  11. Option A: Option B: Option C: Option C: Option D:	Roulette Wheel, Steady state, Elitism, circle selection Roulette Wheel, Tournament ,Rank, Steady state, Elitism Tournament ,Rank, Steady state, Elitism, differential selection Roulette Wheel, oval selection ,Steady state, Elitism  What are the general tasks that are performed with backpropagation algorithm? Clustering and Prediction Clustering and Analysis Analysis and clustering Prediction and function approximation  Select the Encoding scheme used for having advantage over binary and octal
Option B: Option C: Option D:  11. Option A: Option B: Option C: Option C: Option D:	Roulette Wheel, Steady state, Elitism, circle selection Roulette Wheel, Tournament ,Rank, Steady state, Elitism Tournament ,Rank, Steady state, Elitism, differential selection Roulette Wheel, oval selection ,Steady state, Elitism  What are the general tasks that are performed with backpropagation algorithm? Clustering and Prediction Clustering and Analysis Analysis and clustering Prediction and function approximation
Option B: Option C: Option D:  11. Option A: Option B: Option C: Option C: Option D:  12. Option A:	Roulette Wheel, Steady state, Elitism, circle selection Roulette Wheel, Tournament ,Rank, Steady state, Elitism Tournament ,Rank, Steady state, Elitism, differential selection Roulette Wheel, oval selection ,Steady state, Elitism  What are the general tasks that are performed with backpropagation algorithm? Clustering and Prediction Clustering and Analysis Analysis and clustering Prediction and function approximation  Select the Encoding scheme used for having advantage over binary and octal encoding over its smaller size
Option B: Option C: Option D:  11. Option A: Option B: Option C: Option C: Option D:  12. Option A:	Roulette Wheel, Steady state, Elitism, circle selection Roulette Wheel, Tournament ,Rank, Steady state, Elitism Tournament ,Rank, Steady state, Elitism, differential selection Roulette Wheel, oval selection ,Steady state, Elitism  What are the general tasks that are performed with backpropagation algorithm? Clustering and Prediction Clustering and Analysis Analysis and clustering Prediction and function approximation  Select the Encoding scheme used for having advantage over binary and octal encoding over its smaller size Hexadecimal

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13.	The total delta measures total absolute change in network connection weights for each pass of the training data through neural network. This value is most often used to determine the convergence of a
Option A:	Fuzzy logic
Option B:	Backpropagation network
Option C:	Self-organizing network
Option D:	Evolutionary logic
- F · - ·	
14.	How many genes will be used in a chromosome of each individual if the number of cities is 15?
Option A:	15 genes
Option B:	10 genes
Option C:	14.5genes
Option D:	14 genes
option B.	T i genes
15.	Select the correct option that determines genetic algorithm different from conventional optimization algorithm
Option A:	genetic algorithm works for both Continuous functions whereas conventional methods of optimization works on Non-continuous
Option B:	genetic algorithm works for both Continuous and Non-continuous functions whereas conventional methods of optimization works on Continuous and differential
Option C:	genetic algorithm works for both Continuous and differential functions whereas conventional methods of optimization works on Continuous and Non-continuous
Option D:	genetic algorithm works for both Non-Continuous functions whereas conventional methods of optimization works on continuous
16.	ART1 (Adaptive Resonance Theory I) network resolves the problem
Option A:	Elasticity-plasticity dilemma
	• • •
Option B:	Noise-saturation dilemma
Option C:	Elasticity-stability dilemma
Option D:	Stability-elasticity dilemma
17	
17.	The method 'skew detection and correction' is required in
Option A:	Character recognition application
Option B:	Optimization of Travelling salesman problem
Option C:	Quadratic equation solving
Option D:	Fuzzy inference system
18.	Hybrid Neuro-fuzzy system is the combined result of best features selected from Neural network and fuzzy logic such as
Option A:	Neural network is an evolutionary algorithm make use of natural selection and fuzzy logic helps in adjusting to a new environment.
Option B:	Neural network can deal well with raw data as they are good at performing low level computation, while fuzzy logic makes use of linguistic variables which are obtained from domain experts for reasoning at higher level.
Option C:	Fuzzy logic can deal well with raw data as they are good at performing low level computation, while Neural Network makes use of linguistic variables which are obtained from domain experts for reasoning at higher level.

Option D:	Fuzzy logic adjust with new environment and have learning ability that can be achieved by integrating neural network into the system
19.	How is fuzzy logic different from conventional control methods?
Option A:	FOR Approach
Option B:	WHILE Approach
Option C:	IF and THEN Approach
Option D:	DO Approach
20.	In ANFIS architecture the 3 <sup>rd</sup> layer is
Option A:	Fuzzification layer
Option B:	Fuzzy rule layer
Option C:	Normalization layer
Option D:	Defuzzification layer

Q2	Solve any Four out of Six 5 marks each
A	Write steps of character recognition using Neural Network
В	Define Support ,Core, Crossover points, Normality and Convex Fuzzy Sets
С	Explain advantages of Genetic Fuzzy Hybrid System
D	How are genetic algorithms different from traditional methods?
E	For a fuzzy sets A and B defined on the universe $X = \{0,1,2,3,4,5,6,7,8\}$ $A = \{0.2/2,0.7/3,1/4,0.3/5,0.2/6\}$ $B = \{0.2/1,0.3/2,0.6/3,1/4,0.7/5\}$ Determine the intersection, union and compliment of fuzzy sets A & B
F	Implement AND function using McCulloch-Pitts neuron(take binary data)

Q3.	Solve any Two Questions out of Three 10 marks each
A	Explain Genetic Neuro Hybrid System with block diagram.
В	What do you mean by learning? List different learning rules and explain any two with suitable diagrams
С	Solve the problem using genetic algorithm to maximize the function $f(x)=x^2$ when $x \in [0,30]$ . Show computations of minimum one generation.

## **Examination 2020 under cluster ALL(Lead College:SSJCOE)**

Examinations Commencing from 7th January 2021 to 20th January 2021

Program: INFORMATION TECHNOLGY

Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ITDLO7035 and Course Name: Soft Computing

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

#### **Examination 2020 under cluster ALL(Lead College: VCET)**

**Examinations Commencing from 7<sup>th</sup> January 2021 to 20<sup>th</sup> January 2021** 

Program: ALL\_Institute Level Optional Course 1

Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ILO 7011 and Course Name: Product Life Cycle Management
Time: 2 hour

Max. Marks: 80

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Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1	
1.	is not a phase under product life cycle management
Option A:	Introduction
Option B:	Growth
Option C:	Maturity
Option D:	Rotation
2.	In phase extensive advertisement is needed for product promotion
	In phase extensive advertisement is needed for product promotion  Introduction
Option A:	Growth
Option B:	
Option C:	Maturity
Option D:	Decline
3.	In phase profit level reaches to its maximum peak
Option A:	Introduction
Option B:	Growth
Option C:	Maturity
Option D:	Decline
option D.	Beenite
4.	In phase product sales reaches to minimum and profit is also lowest
Option A:	Introduction
Option B:	Growth
Option C:	Maturity
Option D:	Decline
5.	is not a benefit of PLM
Option A:	Product life cycle analysis
Option B:	Profit maximization
Option C:	Decision making
Option D:	Large investment
6.	In design model approach simultaneous and interlinked design activities
	are carried out
Option A:	Integrated
Option B:	Individual
Option C:	Isolated
Option D:	Dual

7		
7.	engineering is also called as simultaneous engineering.	
Option A:	Concurrent	
Option B:	Combine	
Option C:	Linear	
Option D:	Parallel	
0	and the control of th	
8.	emphasizes the multidisciplinary approach in the product development	
Ontion A:	process  Consument engineering	
Option A: Option B:	Concurrent engineering  Dual engineering	
Option C:	Rotational Engineering	
Option C:	Realistic engineering	
Option D.	Realistic engineering	
9.	is not a step under new product development.	
Option A:	Idea generation	
Option B:	Concept development	
Option C:	Idea screening	
Option C:	Sensitivity analysis	
Sphon D.	Someting analysis	
10.	In product is customized according to the customer wishes and product	
10.	prepared as per specific requirement of customer.	
Option A:	Product configuration	
Option B:	Product rotation	
Option C:	Product division	
Option D:		
1		
11.	PDM stands for	
Option A:	Product Data Management	
Option B:	Product Development Management	
Option C:	Product Dispatch Management	
Option D:	Product Distinct Manament	
12.	is not the benefit of PDM	
Option A:	It centralizes and control data	
Option B:	It removes unnecessary data	
Option C:	It improves data management	
Option D:	It increases cost and time	
10		
13.	is not the feature of PDM	
Option A:	It facilitates better use of resources	
Option B:	Engineering changes can be controlled easily	
Option C:	Lead time gets reduced	
Option D:	Consumes more time and resources	
1.4	Samuel Alba and an annual and a Color and	
14.	is not the component of virtual product development	
Option A:	Virtual product design	
Option B:	Virtual simulation	
Option C:	Digital manufacturing	
Option D:	Supply chain management	

15.	DMU stands for	
Option A:	Digital Mock up Unit	
Option B:	Digital Manufacturing Unit	
Option C:	Digital Maintenance Unit	
Option D:	Differential Manufacturing Unit	
=-		
16.	is a realistic rendering technique of creating an image by tracing the path of light	
Option A:	Ray tracing	
Option B:	Ray casting	
Option C:	Radiosity	
Option D:	Radiography	
17.	DFE stands for	
Option A:	Design for excellence	
Option B:	Design for efficiency	
Option C:	Design for environment	
Option D:	Design for economy	
18.	DFE focuses on factor	
Option A:	Economy	
Option B:	Energy	
Option C:	Efficiency	
Option D:	Environment	
19.	LCA stands for	
Option A:	Life Cycle Assessment	
Option B:	Life Cycle Analysis	
Option C:	Life Cycle Assembly	
Option D:	Life Cycle Achievement	
20.	LCCA stands for	
Option A:	Life Cycle Class Achievement	
Option B:	Life Cycle Creative Assessment	
Option C:	Life Cycle Combine Assessment Life Cycle Cost Analysis	

<b>Q2</b>	Solve any Four out of Six 5 marks each	
(20 Marks )		
A	Explain product data management in detail.	
В	Explain virtual product development tools in detail.	
С	Explain the concept of sustainable development.	
D	Explain virtual manufacturing in detail.	
Е	Explain product data management along with its advantages.	
F	Explain the framework of life cycle assessment.	

Q3. (20 Marks)	Solve any Two Questions out of Three 10 marks each
A	Explain life cycle phases in detail.

В	Explain product life cycle strategies in brief.
С	Explain various product development tools in detail.

# **Examination 2020 under clusterALL(Lead College: VCET)**

Examinations Commencing from 7<sup>th</sup> January 2021 to 20<sup>th</sup> January 2021

Program: ALL\_Institute Level Optional Course 1

Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ILO 7011 and Course Name: Product Life Cycle Management
Time: 2 hour

Max. Marks: 80

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

#### **Examination 2020 under cluster ALL(Lead College: VCET)**

**Examinations Commencing from 7<sup>th</sup> January 2021 to 20<sup>th</sup> January 2021** 

Program: ALL\_Institute Level Optional Course 1

Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ILO 7012 and Course Name: Reliability Engineering

Time: 2 hour Max. Marks: 80

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Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks	
1.	The Bathtub curve indicates failure probability, Which stage is NOT normally	
	associated with the bathtub curve?	
Option A:	Pulling the plug where production is halted due to unacceptable level of failures	
Option B:	Infant-mortality where failures occur early	
Option C:	Wear-out where failure increases due to age	
Option D:	Normal-life where few failures occur	
2.	Three components each with a reliability of 0.9 are placed in series. What is the	
	reliability of the system ?	
Option A:	0.729	
Option B:	0.125	
Option C:	0.00258	
Option D:	0.989	
3.	. If A is a perfect subset of B and P(a) < P(b), then P(B - A) is equal to	
Option A:	P(a) / P(b)	
Option B:	P(a) P(b)	
Option C:	P(a) + P(b)	
Option D:	P(b) - P(a)	
4.	In order to maintain maintainability in the system, repair time must	
Option A:	be increased	
Option B:	be reduced	
Option C:	kept constant	
Option D:	keeps on changing	
5.	What refers to wear out failure	
Option A:	Depends upon the subject	
Option B:	Depends upon type of the experiment	
Option C:	Increasing failure rate	
Option D:	Decreasing failure rate	
6.	Find median and mode of the messages received on 9 consecutive days 15,11,9,	
	5,18,4,15,13,17.	
Option A:	13,6	
Option B:	13,18	

Option C:	18,15	
Option C. Option D:	15, 16	
<u> Ծրոսու                                   </u>	13, 10	
7.	The reliability of a device comprised of various parts functioning in series is the :	
Option A:	Product of the reliabilities	
Option B:	Sum of the probabilities of the unreliabilities	
	Product of the unreliabilities	
Option C:		
Option D:	Sum of the reliabilities	
8.	Which among the following exhibits inversely proportional relationship with the	
Ontion A.	reliability?	
Option A:	Production cost	
Option B:	Maintenance and repair cost	
Option C:	Design and development cost	
Option D:	Availability	
9.	If 'm' is the mean of a Poisson Distribution, then variance is given by	
	2	
Option A:	$m^2$	
Option B:	$m^{1/2}$	
Option C:	m	
Option D:	$\frac{m}{}$	
	2	
10	XXII: 1 C.1 C.11 ' ' '1 1 1' 1'1'. 1 '	
10.	Which of the following is not considered a reliability design method	
Option A:	Parts selection	
Option B:	Choice of technology	
Option C:	Accessibility	
Option D:	Derating	
1.1		
11.	Markov analysis is a technique that deals with the probabilities of future	
	occurrences by	
Option A:	Using Bayes' theorem	
Option B:	Analyzing presently known probabilities	
Option C:	Time series forecasting	
Option D:	The maximal flow technique	
12.	Skewness of Normal distribution is	
Option A:	Negative	
Option B:	Positive	
Option C:		
Option D:	Undefined	
13.	The design function which assigns probability of failures between components or	
	subsystems is called:	
Option A:	Significance	
Option B:	Prediction	
Option C:	Qualification	
Option D:	Apportionment	
14.	What is MTTR	

Option A:	Mean Time To Restore		
Option B:	Mean Time To Repair		
Option C:	Mean Time To Recovery		
Option D:	Mean Time to Restoration		
Option D.	Wealt Time to Restoration		
15.	The inherent availability can be calculated for renairable system as:		
Option A:	The inherent availability can be calculated for repairable system as:  MTBF		
_	$A_I = \frac{MTBT}{MTTF + MTTR}$		
Option B:	$A_I = \frac{MTTF}{MTTF + MTTP}$		
Option C:	$A_{I} = \frac{MTBF}{MTTF + MTTR}$ $A_{I} = \frac{MTTF}{MTTF + MTTR}$ $A_{I} = \frac{MTTF}{MTBF + MTTR}$ $A_{I} = \frac{MTTR}{MTTF + MTTR}$		
Ontion D:	MTBF + MTTR   MTTP		
Option D:	$A_{I} = \frac{MTTR}{MTTF + MTTR}$		
16			
16.	Three companies A, B and C supply 25%, 35% and 40% of the notebooks to a		
	school. Past experience shows that 5%, 4% and 2% of the notebooks produced by		
	these companies are defective. If a notebook was found to be defective, what is		
Ontion A.	the probability that the notebook was supplied by A?		
Option A:	44/69		
Option B:	25/69		
Option C:	13/24		
Option D:	11/24		
17. What would happen, if an equipment possesses reliability and maintainab			
	the maximum extent in accordance to MTTR?		
Option A:	Failure rate is higher & downtime is longer		
Option B:	Failure rate is lower & downtime is longer		
Option C:	Failure rate is higher & downtime is shorter		
Option D:	Failure rate is lower & downtime is shorter		
10			
18.	All fault-tolerant techniques rely on		
Option A:	Integrity		
Option B:	Dependability		
Option C:	Redundancy		
Option D:	9: Reliability		
19.	What is the Major Key parameter of maintainability?		
Option A:	Accessibility		
Option B:			
Option C:	RCS		
Option D:	Survival		
20.	Which of the following is the biggest impact of availability		
Option A:	mean time		
Option B:	median time		
Option C:	downtime		
Option C:	maximum time of repair		
Option D.	maximum time of tehan		

Q2	Solve any Four out of Six 5 marks each	
A	Tests performed on a self-diagnostic module for a complex electronic system resulted in correct diagnostics of a known fault 98% of time with only a 1% false reading when it was known there were no faults present. The Probability of a failure (fault) occurring over the test period is 0.005. How reliable is the self-diagnostic module?	
В	Consider the system below. Do the following a) Assume that all components are identical and independent, and have a reliability $R(t)$ . Find the expression for the system reliability. b) Assume the components have exponentially distributed failure times with parameter $\lambda$ . Develop an expression for the failure rate of the system $\lambda_s(t)$ .	
С	Explain measures of Availability.	
D	Obtain reliability of Parallel system containing of n components, when the reliability of each component is known. Assume that the units are non-repairable.	
Е	Explain the Failure Mode Effects analysis	
F	Explain Reliability Block Diagram with example	

Q3	Solve any Two out of Three 10 marks each
Λ	ExplainBath Tub Curve, Hazard rate, failure density and Failure Rate with help of
A	suitable example
	It is known that 5% of the book bound at a certain bindery have defective bindings. Find
В	the probability that 2 of 100 books bound by this bindery will defective binding using
	the Poisson approximation to the binomial distribution.
С	Explain Reliability Improvement methods with suitable example

## **Examination 2020 under cluster ALL (Lead College: VCET)**

**Examinations Commencing from 7<sup>th</sup> January 2021 to 20<sup>th</sup> January 2021** 

Program: ALL\_Institute Level Optional Course 1

Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ILO 7012 and Course Name: Reliability Engineering

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

Examination 2020 under cluster 6 (Lead College: VCET)

Examinations Commencing from 23<sup>rd</sup> December 2020 to 6<sup>th</sup> January 2021 and from 7<sup>th</sup> January 2021

to 20<sup>th</sup> January 2021

Program: ALL

Curriculum Scheme: Rev 2016 Examination: BE Semester VII

Course Code: ILO 7013 and Course Name: Management Information System Time: 2 hour Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks	
1.	For any information to be useful, it must be	
Option A:	Efficient	
Option B:	Safe	
Option C:	Complete	
Option D:	Optimized	
2.	Types of information systems include	
Option A:	Management support system	
Option B:	Hardware processing system	
Option C:	Output handling systems	
Option D:	Storage processing systems	
3.	The term <b>Field</b> in a data represents	
Option A:	Integrated collection of logically related data	
Option B:	A group of related records	
Option C:	Logical structure	
Option D:	Data attribute	
4.	Functions of a DBMS includes	
Option A:	Database	
Option B:	Datamart	
Option C:	Data Warehouse	
Option D:	Manipulation of records in a table	

5.	Data Mart is a subset of	
Option A:	Data	
Option B:	Data mining	
Option C:	Data Warehouse	
Option D:	Database	
6.	Data mining is not used for	
Option A:	Day to Day operations	
Option B:	Market analysis	
Option C:	Customer retention	
Option D:	Discover new correlations	
7.	Data scrubbing is which of the following?	
Option A:	A process to reject data from the data warehouse and to create the necessary	
	indexes	
Option B:	A process to load the data in the data warehouse and to create the necessary	
Option <b>b</b> .	indexes	
	muexes	
Option C:	A process to upgrade the quality of data after it is moved into a data warehouse	
Option D:	A process to upgrade the quality of data before it is moved into a data warehouse	
8.	The purpose of a copyright is	
Option A:	closely safeguarded as a secret, or legal protections are lost	
Option B:	Information that gives one company a competitive advantage over others	
Option C:	Designed to protect the expression of ideas	
Option D:	Designed to protect inventions, tangible objects, or ways to make them	
9.	is the method of translating an original message into a type that, except for the intended recipient, cannot be interpreted by anyone.	

Virtual Private Network (VPN)	
Firewall	
Secure Socket Layer (SSL)	
Encryption	
The identity of the person who needs access is verified by a process called as	
Authentication	
Authorization	
Biometrics	
Password	
Electronic commerce systems generally include all of the following except:	
Internet websites for online sales	
Intranets that allow sales reps to access customer records	
Extranet access of inventory databases	
Direct links to credit reporting services	
Which of the following is incorrect about social computing	
Combines social behaviour and Information system	
Encourages and promotes machine-generated information	
Improves collaboration and interaction among people	
Produces social information	

Option A: Tagging Option B: Really Simple Syndication Option C: AJAX Option D: Wikis  14. Traveling sales people and those at regional sales offices can use the Internet, extranets, and other networks to transmit customer orders from their laptop or desktop PCs, thus breaking barriers.  Option A: Physical Option B: Competition Option C: Structural Option D: Geographic  15. Most companies are building e-business and e-commerce websites to achieve all of the following goals except: Option A: Generate new revenue from online sales Option B: Increase foot traffic at brick and mortar locations Option C: Reduce transaction costs Option D: Increase the loyalty of existing customers via Web customer service and support  16. All of the following would typically be supported by an organization's intranet information portal except: Option A: Communication and collaboration Option B: Business operations and management Option C: Web publishing Option D: Recruitment  17. The most fundamental information systems in an organization are Option A: Office automation systems Option B: Decision support systems			
Option B: Really Simple Syndication  Option C: AJAX  Option D: Wikis  14. Traveling sales people and those at regional sales offices can use the Internet, extranets, and other networks to transmit customer orders from their laptop or desktop PCs, thus breaking barriers.  Option A: Physical  Option B: Competition  Option D: Geographic  15. Most companies are building e-business and e-commerce websites to achieve all of the following goals except:  Option A: Generate new revenue from online sales  Option B: Increase foot traffic at brick and mortar locations  Option C: Reduce transaction costs  Option D: Increase the loyalty of existing customers via Web customer service and support  16. All of the following would typically be supported by an organization's intranet information portal except:  Option A: Communication and collaboration  Option B: Business operations and management  Option C: Web publishing  Option D: Recruitment  17. The most fundamental information systems in an organization are	13.	What allows users to position data in multiple associations that overlap?	
Option D: Wikis  14. Traveling sales people and those at regional sales offices can use the Internet, extranets, and other networks to transmit customer orders from their laptop or desktop PCs, thus breaking barriers.  Option A: Physical Option B: Competition Option D: Geographic  15. Most companies are building e-business and e-commerce websites to achieve all of the following goals except: Option A: Generate new revenue from online sales Option B: Increase foot traffic at brick and mortar locations Option C: Reduce transaction costs Option D: Increase the loyalty of existing customers via Web customer service and support  16. All of the following would typically be supported by an organization's intranet information portal except: Option A: Communication and collaboration Option B: Business operations and management Option C: Web publishing Option D: Recruitment  17. The most fundamental information systems in an organization are Option A: Office automation systems	Option A:	Tagging	
Option D: Wikis  14. Traveling sales people and those at regional sales offices can use the Internet, extranets, and other networks to transmit customer orders from their laptop or desktop PCs, thus breaking barriers.  Option A: Physical Option B: Competition Option C: Structural Option D: Geographic  15. Most companies are building e-business and e-commerce websites to achieve all of the following goals except: Option A: Generate new revenue from online sales Option B: Increase foot traffic at brick and mortar locations Option C: Reduce transaction costs Option D: Increase the loyalty of existing customers via Web customer service and support  16. All of the following would typically be supported by an organization's intranet information portal except: Option A: Communication and collaboration Option B: Business operations and management Option C: Web publishing Option D: Recruitment  17. The most fundamental information systems in an organization are Option A: Office automation systems	Option B:	Really Simple Syndication	
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Option A: Physical Option B: Competition Option C: Structural Option D: Geographic  15. Most companies are building e-business and e-commerce websites to achieve all of the following goals except: Option A: Generate new revenue from online sales Option B: Increase foot traffic at brick and mortar locations Option C: Reduce transaction costs Option D: Increase the loyalty of existing customers via Web customer service and support  16. All of the following would typically be supported by an organization's intranet information portal except: Option A: Communication and collaboration Option B: Business operations and management Option C: Web publishing Option D: Recruitment  17. The most fundamental information systems in an organization are Option A: Office automation systems			
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Option C: Structural Option D: Geographic  15. Most companies are building e-business and e-commerce websites to achieve all of the following goals except: Option A: Generate new revenue from online sales Option B: Increase foot traffic at brick and mortar locations Option C: Reduce transaction costs Option D: Increase the loyalty of existing customers via Web customer service and support  16. All of the following would typically be supported by an organization's intranet information portal except: Option A: Communication and collaboration Option B: Business operations and management Option C: Web publishing Option D: Recruitment  17. The most fundamental information systems in an organization are Option A: Office automation systems			
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Option C: Web publishing  Option D: Recruitment  17. The most fundamental information systems in an organization are  Option A: Office automation systems	Option A:	Communication and collaboration	
Option D: Recruitment  17. The most fundamental information systems in an organization are Option A: Office automation systems	Option B:	Business operations and management	
17. The most fundamental information systems in an organization are Option A: Office automation systems	Option C:	Web publishing	
Option A: Office automation systems	Option D:	Recruitment	
	17.	The most fundamental information systems in an organization are	
Option B: Decision support systems	Option A:	Office automation systems	
	Option B:	Decision support systems	

Option C:	Functional area information systems	
Option D:	Transaction processing systems	
18.	Which of the following is not an advantage of the buy option for acquiring IS	
	applications?	
Option A:	Few types of off-the-shelf software are available, thus limiting confusion.	
Option B:	The software can be tried out.	
Option C:	The buy option saves time.	
Option D:	The company will know what it is getting.	
19.	Which of the following systems acquisition methods saves the company's time,	
	enables the company to select software that has been used for similar problems in	
	other organizations, and allows the company to try out the software?	
Option A:	Systems development life cycle	
Option B:	Prototyping	
Option C:	End-user development	
Option D:	Buy option	
20.	is a method of delivering software in which a vendor hosts the applications	
	and customers access these applications over the Internet.	
Option A:	Software-as-a-Service	
Option B:	Prototyping	
Option C:	Leasing the application	
Option D:	Service-oriented architecture	

Q2 (20 Marks)	Solve any Four out of Six 5 marks each	
A	Describe what is meant by knowledge management. What factors have led to its development	
В	Explain the importance of data in today's environment with an example	
C	With a neat diagram explain the various types of Information systems	
D	What is the impact of information system on organization and society	
Е	Describe the categories of ethical issues related to information technology.	
F	Identify the three major types of controls that organizations can use to protect their information resources, and provide an example of each one?	

Q3	Solve any Four out of Six 5 marks each
(20 Marks)	
A	Discuss why social computing is so important in customer relationship management?
В	Describe the benefits of social commerce to customers.
С	Describe the most common types of wireless devices.
D	Describe technologies that underline pervasive computing, providing examples of how businesses can utilize them?
Е	Compare and contrast the three basic types of reports which are closely associated with FAIS and ERP systems.
F	Describe the four fundamental business decisions that organizations must make when acquiring information systems.

Examination 2020 under cluster 6 (Lead College: VCET)

Examinations Commencing from 23<sup>rd</sup> December 2020 to 6<sup>th</sup> January 2021 and from 7<sup>th</sup> January 2021 to 20<sup>th</sup> January 2021

Program: ALL

Curriculum Scheme: Rev 2016 Examination: BE Semester VII

Course Code: ILO 7013 and Course Name: Management Information System Max. Marks: 80 Time: 2 hour

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

#### **Examination 2020 under cluster ALL(Lead College: VCET)**

**Examinations Commencing from 7<sup>th</sup> January 2021 to 20<sup>th</sup> January 2021** 

Program: ALL\_Institute Level Optional Course 1

Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ILO 7014 and Course Name: Design of Experiments

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks	
1.	The principle used in dealing with controllable nuisance factor is	
Option A:	Analysis of covariance	
Option B:	Process robustness	
Option C:	Blocking	
Option D:	Analysis of variance	
2.	An independent repeat run of each factor combinations is called	
Option A:	Randomization	
Option B:	Replication	
Option C:	Blocking	
Option D:	Repeated measurements	
3.	The study which helps one to understand the conditions under which response	
	variables of interest change seriously is	
Option A:	Robustness	
Option B:	Optimization	
Option C:	Randomization	
Option D:	replication	
4.	Production design and manufacturing personnel being brought together early in	
	the design process is called	
Option A:	Robust Design	
Option B:	Concurrent Engineering	
Option C:	Delayed Diferentiation	
Option D:	Forward Engineering	
5.	Imagine we conducted a three-way independent ANOVA. How many sources of	
	variance would we have?	
Option A:	3	
Option B:	7	
Option C:	4	
Option D:	8	
•		
6.	First the main plot treatment and sub plot treatment are usually decided based on	
	the needed	
Option A:	Precision	
Option B:	Accuracy	
Option C:	Results	

Option D:	Conclusion		
7.	Which of the following statements is true?		
Option A:	No more than four factors can be included in a factorial design.		
Option B:	The number of factors has no bearing on the interpretation of results.		
Option C:	Any number of factors can be included, but interpretation of interactions is more		
option c.	difficult as the number of factors increases.		
Option D:	Interactions with up to ten factors can be readily interpreted.		
8.	Factorial experiments		
Option A:	include two or more dependent variables.		
Option B:	include two or more independent variables.		
Option C:	focus on unmeasured factors.		
Option D:	focus on organismic factors.		
9.	The different treatments are allotted at random to their respective plots. Such arrangement is called		
Option A:	Unique design		
Option B:	Random design		
Option C:	Split plot design		
Option D:	Parallel design		
10.	The factor for which greater is required is assigned to the sub plots.		
Option A:	Accuracy		
Option B:	Testing		
Option C:	Dependance		
Option D:	Precision		
11.	What information is given in the factorial design notation, 2 X 3 X 2?		
Option A:	The design has two independent variables, three dependent variables, and two organismic variables.		
Option B:	Interactions will be found.		
Option C:	The design has three independent variables, two levels of A, three levels of B, and two levels of C.		
Option D:	The design has 12 independent variables.		
=-			
12.	The design in which no main effects are aliased with any other main effect, or		
	two-factor interactions but two-factor interactions are aliased with three factor		
	interactions are called		
Option A:	Resolution IV design		
Option B:	Resolution V design		
Option C:	Resolution III design		
Option D:	Resolution VI design		
13.	There are 30 students in each experimental condition in a 5x4 between groups		
13.	There are 30 students in each experimental condition in a 5x4 between-groups design, how many participants would be needed in total?		
Option A:	design, now many participants would be needed in total?  600		
Option A:	UUU		

Option B: 20		
Option C: 400		
Option D: 30		
14. Designs in which more than one variable are studied simultaneou designs.	isly are called	
Option A: factorial		
Option B: sum of squares		
Option C: two tailed		
Option D: replicate		
Which of the following typically generate negative information a factors do not make a difference in the quality characteristic of in		
Option A: sample data sets		
Option B: attribute data sets		
Option C: bad data sets		
Option D: good data sets		
16. A continuous form of data is called as-		
Option A: attribute data		
Option B: variable data		
1	discontinuous data	
Option D: sample data		
17. Which name is most closely associated with robust design?		
Option A: Taguchi		
Option B: Ford		
Option C: Smith		
Option D: McGinnis		
10 Which of the following is an example of Topychile three level de	ai a m 0	
18. Which of the following is an example of Taguchi's three level des	sign?	
1		
Option B: L8 Option C: L12		
Option D: L27		
Option D. L27		
19. The main difference between traditional Design of Experiments a	and Taguchi's	
Design of Experiments is -	ma raguems	
Option A: Taguchi's DoE considers average to be more interesting to study	than the	
variation		
Option B: Taguchi's DoE considers statistics to study variation		
Option C: Taguchi's DoE considers attribute data to study variation		
Option D: Taguchi's DoE considers variation to be more interesting to study	than the	
average		
20. A factor with a range of settings, that is controlled by the user dur	ring use is called	
as -		
as - Option A: random factor		

Option D:	signal factor	

Q2. (20 Marks)	Solve any Four out of Six	5 marks each
(20 Marks)		
A	Write a note on: Classification of Experimental Design	
В	Explain factorial design.	
С	Explain in short: Randomized Complete Block Design	
D	What are the general guidelines for Designing Experimen	ts?
Е	Discuss hypothesis testing.	
F	Write a note on: Split Plot design	

Q3.	Solve any Two Questions out of Three 10 mar								
(20 Marks)									
A	Explain Taguchi	's design of exper	riments						
	1	Set up an analysis of variance table for the following per acre production							
	data for three va	arieties of wheat,	each grown	on 4 plots and	state if the				
	variety difference	es are significant.							
		Per a	acre production	data					
В	Plot of land								
Ь		A	В	С					
	1	6	5	5					
	2	7	5	4					
	3	3	3	3					
	4	8	7	4					
С	What are the feat design?	tures of a desirabl	e design when	selecting a resp	onse surface				

## **Examination 2020 under cluster ALL (Lead College: VCET)**

**Examinations Commencing from 7<sup>th</sup> January 2021 to 20<sup>th</sup> January 2021** 

Program: ALL\_Institute Level Optional Course 1

Curriculum Scheme: Rev 2016 Examination: BE Semester VII

Course Code: ILO 7014 and Course Name: Design of Experiments

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

#### **Examination 2020 under cluster ALL (Lead College: VCET)**

Examinations Commencing from 7th January 2021 to 20th January 2021

Program: ALL\_Institute Level Optional Course 1

Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ILO 7015 and Course Name: Operations Research

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	At every iteration of Simplex method, for minimization problem, a Variable in the current basis is replaced with another variable that has
Option A:	A positive $c_j$ - $z_j$ value
Option B:	A negative $c_j$ - $z_j$ value
Option C:	$c_j - z_j = 0$
Option D:	Any value
2.	If there are more than one optimum solutions for the LPP then this is the case of
Option A:	Unbounded solution
Option B:	Infeasible solution
Option C:	Alternative optima
Option D:	No solution
3.	The solution of the LPP
	Max. $Z = 15x + 10y$ subject to the constraints
	$4x + 6y \le 360$
	$3x \leq 180$
	$5y \le 200$
Ontion A:	where $x, y \ge 0$ is 60, 0
Option A:	30, 40
Option B:	60, 20
Option C:	
Option D:	0, 40
4.	Dual of the Dual is
Option A:	Primal
Option B:	Dual
Option C:	Alternative
Option D:	Does not exist
5.	In sensitivity analysis of the coefficient of the non basic variables in cost
	minimization LP problem, the upper sensitivity limit is
Option A:	Original value + lowest positive value of improvement ratio
Option B:	Original value - lowest positive value of improvement ratio
Option C:	Positive infinity
Option D:	Negative infinity

6.	If the constraints of a LPP are not satisfied simultaneously then we conclude that									
Option A:	The LPP has infinitely	The LPP has infinitely many solutions								
Option B:	The LPP has a unique	solution	1							
Option C:	The LPP has an unbou	ınded so	lution							
Option D:	The LPP has no soluti	on								
7.	For any Primal proble	m and it	s dual	-						
Option A:	Optimal value of prin									
Option B:	Primal will have an o				only if	dual do	es too			
Option C:	Both primal and dual									
Option D:	solution cannot be fou	ınd from	the san	ne simp	lex tabl	e				
8.	If the arrival and de									3 per
	minute respectively,	find the	averag	e waitir	ng time	of a cu	stomer	in the q	ueue.	
Option A:	5 minutes									
Option B:	240 seconds									
Option C:	5.5 minutes									
Option D:	4.5 minutes									
0	Customans amires et a		Fo aility :	to oot th		ad same	ioo The	intono	mirral an	a
9.	Customers arrive at a			-	_					
	service time are constant 14 minutes. The arriva					_	-		-	II IOI
	14 minutes. The arriva	ai time c	of Custor	ners wi	.11111 14 .	immutes	periou	will be:	<u> </u>	1
	Customer	1	2	3	4	5	6	7	8	
	Arrival Time (min)	0	1.8	3.6	5.4	7.2	9.0	10.8	12.6	
	<b>Determine the avera</b>	ge waiti	ng time	of a cu	stomer	·•				•
Option A:	3.7 mins									
Option B:	3.4 mins									
Option C:	4.0 mins									
Option D:	3.0 mins									
-										
10.	A manual railway re	servatio	n syste	m has 2	counte	ers. Cus	tomers	arrive	to buy ti	ickets
	at a mean rate of 40/									
	15/hr. When both co		-		_	custom	er joins	a sing	le line to	o buy
	the tickets. Identify t									
Option A:	Single server, Infinite									
Option B:	Single server, Infinite									
Option C:	Multiple server, finite				_					
Option D:	Multiple server, Infir	nte quet	ie iengt	ıı, ınnın	ne pop	uiation				
11.	Which of the following	g is <b>NO</b>	T corre	ct?						
Option A:	Basic steps in the use				are mo	re or le	ss indep	endent	of the na	ture
	of the problem			•						
Option B:	Probability simulation	is like i	andom	samplir	g where	e the ou	tput is s	ubject t	o statisti	cal
1	error				_		•	3		
Option C:	Simulation involves d	evelopir	ng a mo	del of so	ome rea	l pheno	menon a	and ther	1	
	experimenting on it	· r · ·	J . ==3·			1				
Option D:	Simulation cannot be	used wh	ere mat	hematic	al techr	igues c	an be us	sed		
Cruon D.	Talliot 60	1111				1,550	00 01			

Option A: Option B: Option C:	When the ordering cost is 2 times	increased	to four tin	nes the EC	O will be increased to				
Option A: Option B: Option C:				nos, me no	Will be illereased to				
Option B: Option C:		2 times							
Option C:	3 times								
	8 times								
Option D:	Remain same								
option B.									
13.	Which of the following	is a prope	erty of a c	lynamic p	rogramming problem?				
Option A:	Optimal substructure								
Option B:	Non-Overlapping sub-	problems							
	Local Optimal choice								
Option D:	The given problem can	be reduce	ed to the 3	S-SAT pro	blem				
			ns is mos	st suitable	for a Probabilistic Dynamic				
	problem solving method								
_	Distributing medical tea		untries						
	Scheduling employmen	t levels							
_	Winning in Las Vegas								
Option D:	Stagecoach problem								
1.5	XX/In a.4. In a sure as a series as a Marc		M::	1	41				
	What happens when Mar No solution exists	ximin and	Minimax	values are	the same ?				
- I · · ·									
	Solution is mixed Saddle point exists								
	Saddle point does not ex	ict							
Option D.	Saddle politi does not ex	181							
16.	The size of the payoff m	atrix of a	game can	be reduced	l by using the principle of				
Option A:	Game inversion								
Option B:	Rotation reduction								
Option C:	Dominance								
Option D:	Game transpose								
17.	The optimum strategies	for each p	layer in th	e case of s	trictly determinable games are-				
			Play	er B					
			B1	B2					
	Player A	A1	0	2					
	ridyer A	A2	-1	4					
Option A:	(A1, B1)								
	(A1, B1) $(A2, B1)$								
	(A2, B1) (A1, B2)								
	(A2, B2)								
opusi 2.	, ,								
18.	An example of purchasing	ng costs in	clude						
	Incoming freight								
-	Storage costs								
	Insurance								
-	Spoilage								

19.	The order cost per order of an inventory is Rs. 400 with an annual carrying cost of
	Rs. 10 per unit. The Economic Order Quantity (EOQ) for an annual demand of 2000
	units is
Option A:	440
Option B:	480
Option C:	500
Option D:	400
20.	The Economic Order Quantity (EOQ) is calculated as
	Note: D=Annual demand (units), S=Cost per order, h=Annual carrying cost per unit
Option A:	$\sqrt{\frac{(D*S)}{h}}$
Option B:	$\sqrt{\frac{(2D*S)}{h}}$
Option C:	$\sqrt{\frac{(D*S)}{3h}}$
Option D:	$\sqrt{\frac{(D*S)}{2h}}$

Q2.	Solve any Four out of Six 5 marks each							
(20 Marks)								
	Find the sa			e best st	trategy	for Player A and Player B. Also		
				Player B	3	_		
A			B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>			
		A <sub>1</sub>	15	2	3			
	Player A	A <sub>2</sub>	6	5	7			
		$A_3$	-7	4	0			
В	Write the dual of the following LPP $ \begin{aligned} \text{Max } Z = & 2x_1 + 9x_2 + 11x_3 \\ \text{subject to} \\ & x_1 - x_2 + x_3 \geq 3 \\ & -3x_1 + 2x_3 \leq 1 \\ & 2x_1 + x_2 - 5x_3 = 1 \\ & \text{where } x_1,  x_2,  x_3 \geq 0 \end{aligned} $							
С	a mean rate rate of 30/ single line 1) Wh	A movie theater has two ticket counters. Customers arrive to buy tickets at a mean rate of 50/hr. A person in each counter requires an average service rate of 30/hr. When both counters are busy, an arriving customer joins a single line to buy the tickets.  1) What is the probability that there is no queue?						

D	Neon lights on the ABC campus are replaced at the rate of 100 units per day. The physical plant orders the neon lights periodically. It costs \$100 to initiate a purchase order. A neon light kept in storage is estimated to cost about \$.02 per day. The lead time between placing and receiving an order is 12 days. Determine the Economic order Quantity (EOQ) of ordering the neon lights and associated cycle length.									
	The automobile production varies	from	126 to	134.						
	Production per day	126	127	128	129	130	131	132	133	134
	Probability	0.04	0.09	0.12	0.14	0.11	0.10	0.20	0.12	0.08
	150 cars using the 80, 81, 76, 75, 64 Simulate the follo 1)Average numbe 2)Average numbe	, 43, 1 owing er of ca	8, 26, ırs wai	10, 12 ting in	, 65, 68	8, 69, 0 actory	51, 57			
	Find an optimal pusing backward re				the fo	llowin	g stage	e coac	h prob	lem
F	$S \xrightarrow{2}$	A 11 B 16	5	$ \rightarrow 0 $	E)-	18	T	)		

Q3.	Solve (any Two) Questions out of Three	10 marks each
(20 Marks )	Solve the following L.P.P. by Simplex method Max $Z=4x_1+10x_2$ subject to $2x_1+x_2 \le 50$	
A	$2x_1 + 5x_2 \le 30$ $2x_1 + 5x_2 \le 100$ $2x_1 + 3x_2 \le 90$ where $x_1, x_2 \ge 0$	

	A Calagna		a a 41a a 4 41a	- f-11-rr		1 1 41		lain mousta			
	A Salesman estimates that the following will be the cost on his route, visiting 5 cities as shown in the table below:										
	visiting 5 ci	mes as sn	own in the	table be	elow:						
		Destination									
			1	2	3	4	5				
		1	∞	2	5	7	1				
В		2	6	∞	3	8	2				
	Source	3	8	7	∞	4	7				
		4	12	4	6	∞	5				
		5	1	3	2	8	∞				
	The salesman can visit each city only once. Determine the sequence he should follow to minimize the total distance travelled.										
	Find the optimal solution to the transportation problem using the stepping stone method.										
						Supply					
C		4	6	8	8	40					
		6	8	6	7	60					
		5	7	6	8	50					
	Demand	20	30	50	50						

## **Examination 2020 under cluster ALL (Lead College: VCET)**

**Examinations Commencing from 7<sup>th</sup> January 2021 to 20<sup>th</sup> January 2021** 

Program: ALL\_Institute Level Optional Course 1

Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ILO 7015 and Course Name: Operations Research

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

#### **Examination 2020 under cluster ALL (Lead College: VCET)**

Examinations Commencing from 7<sup>th</sup> January 2021 to 20<sup>th</sup> January 2021

Program: ALL\_Institute Level Optional Course 1

Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ILO 7016 and Course Name: Cyber Security and Laws

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	Which of the following are wireless attacks?
Option A:	MAC Spoofing, Phishing
Option B:	Eavesdropping,, MAC Spoofing
Option C:	Phishing, Repudiation
Option D:	Eavesdropping , Non- Repudiation
2.	This attack can be deployed by infusing a malicious code in a website's comment section.
Option A:	Cross Site Request Forgery (XSRF)
Option B:	SQL injection
Option C:	HTML Scripting
Option D:	Cross Site Scripting (XSS)
3.	The Objective of Firewalls is to protect?
Option A:	Data Driven Attacks
Option B:	Unauthorized Access
Option C:	Confidentiality
Option D:	Integrity
4.	The user activities are sniff and forward this information as a background process to the attackers
Option A:	Adware
Option B:	Malware
Option C:	Spyware
Option D:	Warms
5.	It is a class of computer threat?
Option A:	Stalking
Option B:	Phishing

Option C:	DOS attacks
Option D:	Soliciting
6.	Someone posing as IT tech requests information about your computer configuration. What kind of attack is this?
Option A:	Whaling
Option B:	Social Engineering
Option C:	Insider Threat
Option D:	Phishing
7.	The Primary objective of worm is to Spread the infection from
Option A:	computer to computer
Option B:	File to file on a computer
Option C:	Website to website
Option D:	Router to routers
8.	It is usually targeted by nature where the emails are exclusively designed to target any exact user.
Option A:	Algo-based phishing
Option B:	Vishing
Option C:	Domain Phishing
Option D:	Spear phishing
9.	In this attack, someone is repeatedly harassed to individuals or organizations using any electronics means.
Option A:	Identity theft
Option B:	Phishing
Option C:	Cyber stalking
Option D:	Bullying
10.	It is a kind of attempts by individuals to get confidential or sensitive information from a individuals to falsifying their identity?
Option A:	Identity theft scam
Option B:	Phishing scams
Option C:	Spyware scams
Option D:	Trojan horse Scam

11.	It cannot be exploited by assigning or by licensing the rights to others.
Option A:	Designs
Option B:	Patents
Option C:	Copy rights
Option D:	Trademark
12.	Which of following would not gain copyright protection?
Option A:	A DVD
Option B:	An unrecorded speech
Option C:	Written lyrics of a song
Option D:	A hand knitted jumper
13.	Which one of the following statements is true?
Option A:	The definition of an invention is set out in the Patents Act 1977.
Option B:	Copyright must be registered in order to gain protection.
Option C:	A patent must be registered in order to gain protection.
Option D:	The owner of a patent cannot sell it but can prevent others using his invention.
14.	Which one of the following is outside the scope of IT Act 2000
Option A:	Electronic message
Option B:	Electronic Evidence
Option C:	Power of Attorney with digital signature
Option D:	Electronic gift
15.	Which Act casts responsibility on body corporate to protect sensitive personal information and provide punishment for offences by companies.
Option A:	IT Act 2000
Option B:	Indian Evidence Act 1872
Option C:	Indian penal code
Option D:	IT (Amendment )Act 2008
16.	What is the proposed punishment for Cyber Terrorism in IT Act?
Option A:	10 year imprisonment
Option B:	Life Imprisonment

Option C:	5 year imprisonment
Option D:	1 Lac rupees penalty
17.	Which of the following NERC Standard provide cyber-security framework for identification and protection of critical cyber assets to support the reliable operation of BES
Option A:	CIP-001
Option B:	CIP-002
Option C:	CIP-002 through CIP-009
Option D:	CIP-003
18.	Standard CIP-002 is used for
Option A:	Critical cyber asset identification
Option B:	Electronic Security Perimeter
	· ·
Option C:	Physical Security of Critical cyber assets
Option D:	Sabotage reporting
19.	Which of the following are part of key provisions of Sarbanes-Oxley Act ?
Option A:	Physical Security of Critical cyber assets
Option B:	Bulk Electric System (BES)
Option C:	Critical assets
Option D:	Corporate Responsibility for financial reports
20.	ISO 27000 was originally published in as the BS 7799 by the British Standards Institute (BSI)
Option A:	1995
Option B:	1998
Option C:	2000
Option D:	2012

Q2 (20 Marks )		
A	Solve any Two	5 marks each
i.	Explain Active and Passive Attacks with example	
ii.	Explain how Appeal can be made under the IT Act 2000	
iii.	Explain Key IT Requirement of GLBA/GLB	
В	Solve any One	10 marks each
i.	How Criminal Plan the Attack? Explain various steps	·

ii. Explain E-Contracts. Discuss E-Contracts Act 1872.		
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Q3. (20 Marks)	
A	Solve any Two 5 marks each
i.	Explain Bluetooth Hacking with various tools
ii.	Explain Vishing, Phishing and Smishing in Cyber Security
iii.	Explain Key IT Requirement of FISMA
В	Solve any One 10 marks each
i.	Explain how Intellectual Property Laws protect the rights of the owner of
	the Intellectual Property
ii.	Explain Key features of Indian Information Technology Act 2000.

## **Examination 2020 under cluster ALL (Lead College: VCET)**

**Examinations Commencing from 7<sup>th</sup> January 2021 to 20<sup>th</sup> January 2021** 

Program: ALL\_Institute Level Optional Course 1

Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ILO 7016 and Course Name: Cyber Security and Laws

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

# University of Mumbai Examination 2020 under cluster ALL (Lead College: VCET)

Program: ALL\_Institute Level Optional Course 1

Curriculum Scheme: Rev2016 Examination: BE Semester VII Course Code: ILO 7017

Course Name: Disaster Management and Mitigation Measures

Q1.	Choose the correct option for following questions. All the Questions are
	compulsory and carry equal marks
1.	Which of the following is NOT occurred as a consequence of earthquake
Option A:	Tsunami
Option B:	Fire
Option C:	Damage to building
Option D:	Drought
2.	Which of the following is NOT the natural cause of flood.
Option A:	River bank erosion
Option B:	Poor natural drainage
Option C:	Heavy rain
Option D:	Deforestation
3.	Terrorism is atype of disaster
Option A:	Man made
Option B:	Natural
Option C:	Both natural and man made
Option D:	Neither natural nor man made
4.	World Health Organization (WHO) was established in
Option A:	1950
Option B:	1948
Option C:	1947
Option D:	1960
- F	
5.	Who heads NDMA, the apex body for Disaster management
Option A:	Home Minister
Option B:	Finance Minister
Option C:	Prime Minister
Option D:	Home Secretary
6.	Which of the following is a disaster mitigation strategy?
Option A:	Constructing cyclone shelters

Option B:	Giving loans from banks
Option C:	Providing cheap electricity
Option D:	Providing school uniforms to children
option B.	110 viding sensor dimornis to emidren
7.	Which of the following organization is the apex authority of disaster management
/ .	in India?
Option A:	NDA
Option B:	NDMA
Option C:	CDMA
Option D:	INDR
Option D.	
8.	If the deficiency of a particular year's rainfall more than 50 % of normal it is
0.	termed as
Option A:	Onset of Drought
Option B:	Moderate Drought
Option C:	Severe Drought
Option D:	Simple Drought
Option D.	Simple Brought
9.	Magnitude of earthquake indicates amount of
Option A:	vibrations per second
Option B:	vibrations per minute
Option C:	Oscillations
Option D:	energy released
F	67
10.	By which Act, N.I.D.M got the statutory organization status?
Option A:	National Disaster Policy Act 1999
Option B:	NDMP 2019
Option C:	Disaster Management Act 2005.
Option D:	National DM Policy 2009
11.	Amateur Radio is also known as?
Option A:	Ham radio
Option B:	Home radio
Option C:	Pocket radio
Option D:	Silent radio
12.	What are the three phases of disaster management planning?
Option A:	Preparation, Response and Recovery
Option B:	Preparation, Planning and Perception
Option C:	Evacuating, Rebuilding and Re-branding
Option D:	Planning, Evacuating and Recovery
13.	Cyclones, Heat wave, Climate change are part ofdisaster.
Option A:	The Geological Disaster
Option B:	The Hydrological Disasters
Option C:	The Meteorological Disasters
Option D:	The Chemical Disaster

14.	The Indian Tsunami Early Warning Centre (ITEWC) established at Indian
	National Centre for Ocean Information Sciences is located in
Option A:	Chennai
Option B:	Kochi
Option C:	Goa
Option D:	Hyderabad
15.	In in 2013 cloudburst created the flash flood situation to cause heavy
	damage to lives and property.
Option A:	Uttarakhand
Option B:	Chennai
Option C:	Kashmir
Option D:	Karnataka
16.	When was the updated & revised National Disaster Management Plan was
	prepared?
Option A:	2016
Option B:	2019
Option C:	2018
Option D:	2017
17.	Which of the following is the best thing to do during heavy lightning?
Option A:	lie on the ground in an open place
Option B:	Go into a water body
Option C:	Stay indoors, away from metallic doors and windows
Option D:	Stand under a tall tree
18.	The given three actions are arranged for which step i) The planning ii) The training and iii) The supply
Option A:	The prevention step
Option B:	Recovery step
Option C:	The preparation step
Option D:	The recovery step
19.	The Vision of is "To build a safer and disaster resilient India by a holistic proactive technology driven and sustainable development strategy that involves all stake holders and fasters a culture of Prevention, preparedness and Mitigation.
Option A:	N.D.R.F
Option B:	N.D.M.A
Option C:	S.D.R.F
Option D:	N.I.D.M
20.	S.D.R.F Stands for
Option A:	State Disaster Response Fund
Option B:	State Disaster Relief Fund
Option C:	State Dedicated Relief Fund
Option D:	State Dynamic Response Fund
opnon D.	

Q2	Solve any Four out of Six 5 marks each
A	State and describe the measures to prevent the global warming.
В	Define "Nuclear Disaster "and describe the effects of Nuclear disasters in India
С	What are the long term and short-term effects of disaster?
D	What are the main phases of Disaster Management?
Е	Describe the importance and the methods to create public awareness in Disaster management?
F	Explain the role of Government Agencies in Relief fund raising for Disaster management.

Q3.	Solve any Two Questions out of Three 10 marks each
A	Write detail note on occurrence, causes and measurement of earthquake. List out some of the major earthquakes occurred in India
В	Explain the role of NGO's in post disaster scenario and during rehabilitation.
С	State Do's and Don'ts in case of various disasters.

### Examination 2020 under cluster ALL (Lead College: VCET)

Examinations Commencing from 7<sup>th</sup> January 2021 to 20<sup>th</sup> January 2021

Program: ALL\_Institute Level Optional Course 1

Curriculum Scheme: Rev2016 Examination: BE Semester VII Course Code: ILO 7017

Course Name: Disaster Management and Mitigation Measures

Time: 2 hour Max. Marks: 80

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

Q16.	В
Q17.	A
Q18.	C
Q19.	В
Q20.	A

#### **Examination 2020 under cluster ALL (Lead College:**

**Examinations Commencing from 7<sup>th</sup> January 2021 to 20<sup>th</sup> January 2021** 

Program: ALL\_Institute Level Optional Course 1

Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ILO 7018 and Course Name: EAM

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	Energy that is available in market for definite price is known as
	Energy that is available in market for definite price is known as
Option A:	Renewable energy
Option B:	Commercial energy
Option C:	Non-commercial energy
Option D:	Traditional energy
2.	As per the report "BP Statistical Review of World Energy-2014", for how many years the coal reserve in India available for energy production?
Option A:	500
Option B:	300
Option C:	100
Option D:	200
-	
3.	Which source of energy dominates the energy production mix in India?
Option A:	Natural gas
Option B:	Coal
Option C:	Oil
Option D:	Nuclear
-	
4.	Assisting and implementing ENCON recommendation measures and monitoring the performance are done in
Option A:	Pre Audit phase
Option B:	Audit phase
Option C:	Post Audit phase
Option D:	Pre and Audit phase
5.	The height of a column in a pump is called as
Option A:	Horizontal head
Option B:	Static head
Option C:	Multi head
Option D:	Vertical head
6.	What covers study of Variations occurring in energy costs, availability and reliability of supply of energy, energy mix, identify energy conservation technologies, retrofit for energy conservation equipment.
Option A:	Performance assessment

Option B:	Energy Audit
Option C:	Energy reliability
Option D:	Energy planning
opusi 2.	
7.	Which type of audit offers the most accurate estimate of energy savings and cost?
Option A:	Preliminary Audit
Option B:	Detailed Audit
Option C:	Overall Audit
Option D:	Secondary Audit
8.	Obtaining site drawings like building layout, steam, air distribution, electricity
	distribution are performed in which phase of audit?
Option A:	Post Audit phase
Option B:	Pre Audit phase
Option C:	Audit phase
Option D:	In between Pre and Post Audit phase
9.	Power factor can be improved by connecting which among these?
Option A:	Semiconductor device
Option B:	Resistors
Option C:	Inductor
Option D:	Static capacitors
10	
10.	Fixed charge and Variable charge are dependent on what factor for HT consumer?
Option A:	Average load ,Energy consumption
Option B:	Energy consumption, Maximum Demand
Option C:	Maximum demand, Energy Consumption
Option D:	Maximum demand ,Peak load demand
11.	Energy savings potential of variable torque applications compared to constant torque
11.	application is:
Option A:	Higher
Option B:	Equal
Option C:	Lower
Option D:	Does not depend on Torque
•	
12.	Electronic soft starters are used for motors to:
Option A:	improve the loading
Option B:	provide smooth start and stop
Option C:	achieve variable speed
Option D:	provide jerk during starting
13.	For large space lighting we prefer
Option A:	Time based control
Option B:	day light based controllers
Option C:	Localized Switching
Option D:	Photo sensors
14.	Formation of bubbles in an impeller is called
Option A:	Cavitation

Option B:	Defects
Option C:	Friction
Option D:	Heat burn
15.	If no instrument other than tachometer is available, what method you would suggest
	for measuring the motor load?
Option A:	Slip method
Option B:	Input power measurement method
Option C:	Line current measurement method
Option D:	Terminal voltage method
16.	In lighting performance assessment ILER stands for
Option A:	International Lighting Energy Regulation
Option B:	Indian Lighting Efficiency Regulation
Option C:	Installed Load Efficacy Ratio
Option D:	Interior Lighting Energy Ratio
17.	To have lighting performance assessment satisfactory to good, ILER value must be
Option A:	0.75 and above
Option B:	0.5 and less
Option C:	between 0.25 to 0.5
Option D:	below 0.25
18.	Which LEED rating system requires durability?
Option A:	LEED for Schools
Option B:	LEED for Commercial Interiors
Option C:	LEED for Homes
Option D:	LEED for Existing Buildings: Operation and Maintenance
19.	Photovoltaic cell converts solar energy into
Option A:	Heat energy
Option B:	Electric energy
Option C:	Mechanical energy
Option D:	Chemical energy
20.	Which insulation material is used for high temperatures
Option A:	Magnesia
Option B:	Polyurethane
Option C:	Expanded Polystyrene
Option D:	Calcium Silicate

Q2	
A	Solve any Two 5 marks each
i.	Explain any FIVE special features of green building.
ii.	Explain advantages of power factor improvement.
iii.	A pump is filling water in to a rectangular overhead tank of 5 m x 4 m with a height of 8 m. The inlet pipe to the tank is located at height of 20 m above ground.  Pump suction: 3 m below pump level  Overhead tank overflow line: 7.5 m from the bottom of the tank  Power drawn by motor: 5.5 kW  Motor efficiency η: 92%  Time taken by the pump to fill the overhead tank up to overflow level: 180 minutes. Find the pump efficiency.
В	Solve any One 10 marks each
i.	What is the need of energy audit and explain types of energy audit.
ii.	Describe General fuel economy measures in furnaces

Q3	
A	Solve any Two 5 marks each
i.	Explain Benchmarking and its types.
ii.	A 7.5 kW, 415 V, 15 A, 970 RPM, 3 phase rated induction motor with full
	load efficiency of 86 % draws 7.5 A and 3.23 kW of input power. Find the
	percentage loading of the motor.
iii.	Explain what is thermal insulations and its benefits.
В	Solve any One 10 marks each
i.	Describe energy saving opportunities in water pumps.
ii.	Explain energy conservation opportunities in lighting controls.

## **Examination 2020 under cluster ALL (Lead College: VCET)**

**Examinations Commencing from 7<sup>th</sup> January 2021 to 20<sup>th</sup> January 2021** 

Program: ALL\_Institute Level Optional Course 1

Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ILO 7018 and Course Name: EAM\_

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

#### **Examination 2020 under cluster ALL(Lead College: VCET)**

# **Examinations Commencing from 7<sup>th</sup> January 2021 to 20<sup>th</sup> January 2021**

# Program: ALL\_Institute Level Optional Course 1

Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ILO 7019 and Course Name: Development Engineering

Time: 2 hour Max. Marks: 80

#### 0701\_R16\_ALL\_VII\_ILO7019\_QP1

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	Which of the following was the first committee on Panchayati raj in India
Option A:	Balwant Rai Mehta
Option B:	Ashok Mehta
Option C:	
Option C:	L.M.Singhvi S. Mohinder Singh
Option D.	S. Wollinger Singh
2.	When is National Panchayati Day celebrated
Option A:	23rd December
Option B:	1st June
Option C:	24th April
Option D:	15th September
- F : V	
3.	73rd amendment gave practical shape to which article of the constitution
Option A:	Article 14
Option B:	Article 32
Option C:	Article 40
Option D:	Article 51
4.	The multi-dimensional poverty index is a measure developed by the
Option A:	UNCTAD
Option B:	World Bank
Option C:	International Monetary Fund IMF
Option D:	Oxford poverty and human development initiative, OPHDI, and the UNDP
5.	Which of the following system is established on the basis of direct election
Option A:	Gram Panchayat
Option B:	Block Committee
Option C:	Zila Parishad
Option D:	District
6.	Engagement of local people in development project refers to
Option A:	Economic development
Option B:	Socila development
Option C:	Participatory development
Option D:	Sustainable development

7.	Panchayats are constituted for
Option A:	four years
Option B:	five years
Option C:	six years
Option D:	three years
F	
8.	Bread labour means
Option A:	To earn one's livelihood by engaging in manual labour
Option B:	Hard physical labour
Option C:	Labour for making bread
Option D:	Engaging in agriculture
•	
9.	The Human Development Index ranks the countries based on their performance in the key areas of (1) health, (2) sex-ratio, (3)education (4) access to resources
Option A:	1,2,3
Option B:	2,3,4
Option C:	1,3,4
Option D:	1,2,4
option D.	1,20,1
10.	Which one of the following is not a correct statement?
Option A:	Growth is quantitative and value neutral
Option B:	Development means a qualitative change which is always value positive
Option C:	Positive growth and development refer to changes over a period of time
Option D:	Both growth and development refer to changes over a period of time.
11.	Which of the following elements must always be in the mind of the engineer
	while performing his duties vis-à-vis Ethics (1)public safety, (2) economy, (3)
	health, (4) welfare
Option A:	1,2,3
Option B:	1,2,3,4
Option C:	1,4
Option D:	1,3,4
12.	According to Gandhi, 'Enjoy the wealth by renouncing it'is the essence of
Option A:	Trusteeship
Option B:	Sarvodaya
Option C:	Swaraj
Option D:	Ramarajya
12	The term that refers to principles valves beliefs that define right an arrange
13.	The term that refers to principles, values, beliefs that define right or wrong behaviour is
Option A:	Customer satisfaction
Option B:	Innovation
Option C:	Ethics
Option C. Option D:	Empowerment
Option D.	- Empo wormone
14.	In which five year plan the Panchayat Raj System was introduced in India for the
1	first time
Option A:	First
- 1	ı

Option B:	Second
Option C:	Fifth
Option D:	Sixth
•	
15.	Which of the following is an appropriate general principle with regard to
	engineering ethics
Option A:	The engineer shall regard his duty to the public welfare as paramount to all other
	obligations
Option B:	The engineer shall regard his duty to the objectives of the company as paramount
	to all other obligations
Option C:	The engineer shall regard his duty to the Profession of engineering as paramount
	to all other obligations
Option D:	The engineer shall regard his duty to his excellence as paramount to all other
	obligations
16.	Those individuals who raise ethical concerns to others inside or outside the
	organisation are called
Option A:	Entrepreneur
Option B:	Whistle blower
Option C:	Social entrepreneur
Option D:	Social impact management
17.	Which of the following is not a key intervention to improve governance
Option A:	Facilitating independent and inclusive journalism
Option B:	Capacity building of government officials
Option C:	Advocacy for policy design and implementation
Option D:	Employment for all
18.	Which of the following is not in the 11 <sup>th</sup> schedule of subjects
Option A:	Fisheries industry
Option B:	Safe drinking water
Option C:	Markets and fairs
Option D:	Large irrigation projects
19.	The following is not a stated objective of Self Help Groups
Option A:	Provide employment to the members
Option B:	Create awareness about rights
Option C:	Foster a sense of community
Option D:	Entrepreneurship development
20.	Those individuals who raise ethical concerns to others inside or outside the
	organisation are called
Option A:	Entrepreneur
Option B:	Whistle blower
Option C:	Social entrepreneur
Option D:	Social impact management

Q2	Solve any Four out of Six 5 marks each	
A	Explain the provisions of the 74 <sup>th</sup> amendment	
В	What is the scope of information and communication technology in rural India	
С	Define ethics and ethical dilemma	
D	What are the important components of Green Revolution	
E	What are the various steps taken for inclusion of women and the members of the reserved category in decision making	
F	Why was there a need to set up rural co-operatives	

Q3	Solve any Four out of Six 5 marks each	
A	Briefly discuss the various rural development schemes in India	
В	What is the importance of ethical conduct in business	
С	Human Development Index is a barometer of a nation's progress-	
	Comment on this while giving specific examples to prove your point	
D	What are self help groups (SHG)? Explain their significance in rural	
D	development	
Е	Discuss any 2 initiatives of the Government of India towards urban	
E	development	
F	What are the functions of Panchayat Samiti	

## **Examination 2020 under cluster ALL (Lead College: VCET)**

Examinations Commencing from 7th January 2021 to 20th January 2021

Program: ALL\_Institute Level Optional Course 1

Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: ILO 7019 and Course Name: Development engineering

Time: 2 hour Max. Marks: 80

#### 0701\_R16\_ALL\_VII\_ILO7019\_AK1

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