Examinations Commencing from 1st June 2021

Curriculum Scheme: Rev2016 Examination: BE Semester VIII

Course Code: 53364 and Course Name: IPR & Patenting

	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks			
1.	As per a work created by an individual represents their specific character as an individual, natural rights demands that we accept the resulting development as its creator's exclusive property.			
Option A:	Personality Theory			
Option B:	Labour Theory			
Option C:	Natural theory			
Option D:	Social Contract Theory			
2.	A design in India does not include			
Option A:	mode or principle of construction			
Option B:	features of shape			
Option C:	composition of lines or colours			
Option D:	shape of the object			
3.	What is the challenge faced by Intellectual Property?			
Option A:	Biodiversity			
Option B:	Digital world			
Option C:	Internet			
Option D:	Product			
4.	A patent isgranted by a country to the owner of an invention to make, use, manufacture and market the invention, provided the invention satisfies certain conditions stipulated in the law.			
Option A:	exclusive right			
Option B:	Inclusive right			
Option C:	Private			
Option D:	tangible property			
5.	can be interpreted stand-alone without associating with any other claims.			
Option A:	Dependent claims			

Option B:	Independent claims				
Option C:	Mutually dependent claims				
Option D:	verbatim claim				
6.	When did China become a member of the World Intellectual Property Organization (WIPO)?				
Option A:	1978				
Option B:	1979				
Option C:	1980				
Option D:	1982				
7.	If you file provisional specification, the complete specification is required to be filed within :				
Option A:	10 months				
Option B:	12 months				
Option C:	18 months				
Option D:	24 months				
8.	Duration of patent is				
Option A:	20 years from the date of application				
Option B:	20 years from the date of publication				
Option C:	20 years from the date of grant				
Option D:	20 years from the date of examination				
9.	What is the territorial jurisdiction of the Patents Act, 1970?				
Option A:	It extends to whole of India except for the State of Jammu & Kashmir				
Option B:	It extends to whole of India				
Option C:	It extends to the whole of India except for the Union Territories and State of Jammu & Kashmir.				
Option D:	It extends to whole of India and members of the World				
10.	Every application for a patent shall be for one invention only and shall be filed in Form-1 at an appropriate office				
Option A:	One invention- one application				
Option B:	Up to four connected inventions are permissible				
Option C:	Multiple inventions can be clubbed in one application and special fees to be				
	charged for it				
Option D:	One major invention and one minor invention are permissible				
11.	Indian Design Act was enacted in the year				
Option A:	1970				
Option B:	2000				
Option C:	1998				

Option D:	1995				
12.	Which of the following remedies is not available for infringement?				
Option A:	Civil				
Option A:	Criminal				
Option C:	Administrative				
Option D:	personal law				
Орион В.	personalidw				
13.	Design patents may be granted to whom in US Scenario?				
Option A:	anyone who uses design				
Option B:	anyone who replicates useful process or machine				
Option C:	anyone who invents a new, original, and ornamental design for an article of manufacture				
Option D:	anyone who replicates a ornamental design				
14.	An inventor was awarded a patent in U.K. on a method for selecting transformed				
	plants and has practiced the mentioned method only in U.K. Six months later,				
	another person who independently invented the same method in Australia wants				
	to obtain a patent in Australia. She:				
Option A:	could do it without major problems				
Option B:	would not be able to do it because the granted patent was published in the U.K.				
Option C:	would not be able to do it because the method is used in the U.K.				
Option D:	: would not be able to do it because the method is used in the U.K and patent				
	granted was published in UK				
15	The multipation of a natural continution shall be available.				
15.	The publication of a patent application shall be available				
Option A:	Official Journal of the Patent office				
Option B:	Official Gazette of the Government of India				
Option C:	Website of the Press Information Bureau				
Option D:	National Newspapers on every Tuesday				
16.	Which of the following are remedies to breach of confidential information?				
Option A:	infringement				
Option B:	Permanent Injunction				
Option C:	Damages				
Option D:	Interim Injunction				
17.	How many types of compulsory licenses are provided for under the Indian patent				
	Act?				
Option A:	1				
Option B:	2				
Option C:	3				
Option D:	4				

18.	A National Phase Application may be filed in India because India is a member of			
	the			
Option A:	WHO			
Option B:	UNICEF			
Option C:	PCT			
Option D:	NASA			
19.	E-commerce thing that needs to be considered with respect to IP is			
Option A:	traditional knowledge			
Option B:	data			
Option C:	logo			
Option D:	photos			
20.	Typically, transfer technology is done protecting the IPR (i.e. patents and copyrights).			
Option A:	before			
Option B:	after			
Option C:	never			
Option D:	anytime			

Q2	Solve any Two Questions out of Three 10 marks	s each	
Α	A List and explain the different IP with examples		
В	What do you understand by claims? Draft five claims for a mobile phone.		
C Write in brief about pre-grant and post-grant opposition for a patent.			

Q3	Solve any Two Questions out of Three 10 n	narks each	
А	A Enumerate the procedure to file trademark in India.		
В	Explain the Berne Convention.		
C What are impacts of internet on Intellectual Property?			

Examinations Commencing from 1st June 2021

Curriculum Scheme: Rev2016/2012 Examination: BE Semester VIII

Course Code: 53364 and Course Name: IPR & Patenting

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

Examinations Commencing from 1st June 2021 to 15th June 2021

Program: **Information Technology** Curriculum Scheme: Rev-2016

Examination: BE Semester VIII

Course Code: ITC801 and Course Name: Big Data Analytics

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks				
1.	Vertical scaling means				
Option A:	Adding computers serially				
Option B:	Adding computers in parallel				
Option C:	Adding computers serially as well as parallel				
Option D:	Adding more processors, more memory and faster hardware typically within a single server				
2.	NoSQL databases is used mainly for handling large volumes of				
Option A:	Structured Data				
Option B:	Unstructured Data				
Option C:	Semi-Structured Data				
Option D:	Relational Data				
3.	HBase istype of NOSQL database				
Option A:	Key-Value				
Option B:	Column family Oriented				
Option C:	Document Based				
Option D:	Graph Based				
4.	Which of the following statements is correct with respect to the statement, "In Hadoop there exists"				
Option A:	one JobTracker per Mapper				
Option B:	one JobTracker per node				
Option C:	one JobTracker per Hadoop job				
Option D:	one JobTracker per cluster				
5.	Which of the following is a valid flow in Hadoop?				
Option A:	Input -> Reducer -> Mapper -> Combiner -> -> Output				
Option B:	Input -> Mapper -> Reducer -> Combiner -> Output				
Option C:	Input -> Mapper -> Combiner -> Reducer -> Output				
Option D:	Input -> Reducer -> Combiner -> Mapper -> Output				
6.	How can you disable the reduce step?				

Option A:	The Hadoop administrator has to set the number of the reducer slot to zero on all slave nodes. This will disable the reduce step.				
Option B:	It is impossible to disable the reduce step since it is critical part of the Map-Reduce abstraction.				
Ontion C:					
Option C:	completely disable the reduce step.				
Option D:	: While you cannot completely disable reducers, you can set output to one.				
	needs to be at least one reduce step in Map-Reduce abstraction.				
7.	HBASE satisfies which of the following properties:				
Option A:	Partition tolerance – Consistency				
Option B:	Availability – Partition Tolerance				
Option C:	Consistency – Availability				
Option D:	Availability – partition tolerance – Consistency				
орион В.	7. Validability partition tolerance consistency				
8.	The number of maps is usually driven by the total size of :				
Option A:	Inputs				
Option B:	Outputs				
Option C:	Tasks				
Option D:	Nodes in cluster				
•					
9.	Using Map Reduce for Union in map phase what happens				
Option A:	Maps tuples and emits all tuples of two set to be united				
Option B:	Maps tuples and emits tuples				
Option C:	Maps keys and emits keys				
Option D:	Maps keys and emits all keys of two set to be united				
10.	In order to count the 1's bit from large data stream model, the algorithm we				
	use as				
Option A:	Bloom Filter				
Option B:	Flajolet- Martin				
Option C:	Sampling Algorithms				
Option D:	DGIM				
11.	In Flajolet Martin algorithm, if an element appears second time, the value				
Option A:	Decreases				
Option B:	Increases				
Option C:	Increases or Decreases depending on the stream.				
Option D:	Remains unchanged				
12.	Bloom Filter provides which answer from large collection of Data Set.				
Option A:	Member is definitely present in the set.				
Option B:	Not sure whether a member is present or not in the set.				
Option C:	Member may be present, or definitely not present in the set.				
Option D:	Member can be present or absent is not predicted.				
40					
13.	You are owner of an online shopping website and have just ended the "Great				
	Indian Shopping Sale" offer. This offer was valid for 2 days. You want to find out				

how many unique customers have utilized the offer during this period. Which b data streaming approach will you adopt to achieve the result. Option A: Bloom Filter Option B: Flajolet- Martin Option C: Sampling Algorithms Option D: DGIM 14. MapReduce can be applied to decision trees if Option A: Data is large to be kept in memory and the generated tree is large such that cannot be stored in single machine memory Option B: Data is large to be kept in memory, but the generated tree can be stored memory
Option A: Bloom Filter Option B: Flajolet- Martin Option C: Sampling Algorithms Option D: DGIM 14. MapReduce can be applied to decision trees if Option A: Data is large to be kept in memory and the generated tree is large such that cannot be stored in single machine memory Option B: Data is large to be kept in memory, but the generated tree can be stored memory
Option B: Flajolet- Martin Option C: Sampling Algorithms Option D: DGIM 14. MapReduce can be applied to decision trees if Option A: Data is large to be kept in memory and the generated tree is large such that cannot be stored in single machine memory Option B: Data is large to be kept in memory, but the generated tree can be stored memory
Option C: Sampling Algorithms Option D: DGIM 14. MapReduce can be applied to decision trees if Option A: Data is large to be kept in memory and the generated tree is large such that cannot be stored in single machine memory Option B: Data is large to be kept in memory, but the generated tree can be stored memory
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14. MapReduce can be applied to decision trees if Option A: Data is large to be kept in memory and the generated tree is large such that cannot be stored in single machine memory Option B: Data is large to be kept in memory, but the generated tree can be stored memory
Option A: Data is large to be kept in memory and the generated tree is large such that cannot be stored in single machine memory Option B: Data is large to be kept in memory, but the generated tree can be stored memory
Option A: Data is large to be kept in memory and the generated tree is large such that cannot be stored in single machine memory Option B: Data is large to be kept in memory, but the generated tree can be stored memory
Option B: Cannot be stored in single machine memory Option B: Data is large to be kept in memory, but the generated tree can be stored memory
memory
Option C: Data is small and can be stored in single machine memory, but the generated tre
cannot be stored in single memory
Option D: Data is small and can be stored in single machine memory and the generated tree
can be stored in single memory
Ŭ ,
15. Margin in SVM is defined as
Option A: the distance of closest example from the decision boundary/hyperplane
Option B: the distance between other side of the margin and data point
Option C: distance between two data points on the same side of hyperplane
Option D: distance between two data points on the opposite side of hyperplane
16. Canopy Clustering is usually used as
Option A: Pre Clustering techniques for very large datasets
Option B: Clustering techniques for high dimensional datasets
Option C: Clustering techniques for very small datasets
Option D: post clustering techniques for Large datasets
17. The pairs (i, j) that are generated in pass 2 of the PCY are those
Option A: where one of i or j hash to a frequent bucket
Option B: where both i and j hash to a frequent bucket
Option C: where neither i or j hash to a frequent bucket
Option D: does not depend on the frequent bucket
18. Data structure format in which graph can be represented
Option A: Queue
Option B: Array
Option C: Matrix
Option D: Stack
19. Which of the following factors have an impact on the Google PageRank?
Option A: The Subject Matter of the site providing the inbound link to a page of a web site
Option B: The Total Number of inbound links to a page of a web site
Option C: The Text used to describe the inbound link to a page of a web site
Option D: The Number of Outbound Links on the page that contains the inbound link to page of a web site

20.	In a web graph if a set of pages all have outlinks that reach only pages from the same set, the structure is called a
Option A:	Hubs
Option B:	Spider Traps
Option C:	Dead Ends
Option D:	Authorities

Q2. (20 Marks)	Solve any Four out of Six 5 marks each		
Α	Explain Hadoop Architecture and its Components with proper diagram		
В	Explain CAP theorem and explain how NoSQL systems guarantees BASE property.		
С	Discuss how failures are handled in MapReduce job?		
D	Describe the memory utilization in PCY algorithm		
	a, b	o, b, c}	&{2, 3, 5, 7} and {a, a, a, b}& {a,
Е	& 0	d Hamming Distance between 01011 mpute the cosines of the angle l).	
Explain with example Collaborative based filtering in a recommendative system.			tering in a recommendation

Q3. (20 Marks)	Solve any two out of three	10 marks each
A	For the graph given below, use Clique Percole communities. B C B H I	
В	Define PageRank. Using the web graph show PageRank at every node at the end of the sec factor = 0.8.	

С	Suppose a data stream consists of the integers 3,1,4,1,5,9,2,6,5. Let the hash function being used be: i) h(x)=3x+1 mod 5 ii) h(x)= 5x +6 mod 5 iii) h(x) = 2x + 3 mod 5 Show how the Flajolet-Martin algorithm will be used to estimate the number of distinct element in this stream.

Examinations Commencing from 1st June 2021 to 15th June 2021

Program: **Information Technology** Curriculum Scheme: Rev-2016

Examination: BE Semester VIII

Course Code: ITC801 and Course Name: Big Data Analytics

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

Examinations Commencing from 1st June 2021

Program: Information Technology Curriculum Scheme: Rev2016 Examination: BE Semester VIII

Course Code: ITDLO8045 and Course Name: Enterprise Resource Planning

01	Choose the correct option for following questions. All the Questions are
Q1.	compulsory and carry equal marks
1.	In the, information about all the aspects of the organization is
	stored centrally and is available to all departments
Option A:	Enterprise
Option B:	Management Information system
Option C:	Business process
Option D:	Executive information system
Орион Б.	LACCULIVE IIIIOITIIatioii system
2.	is one of the first activities in any ERP project.
Option A:	Data Process
Option B:	Business Process
Option C:	Data Modelling
Option D:	Business Modelling
-	
3.	Which of the following is not a Common Executive Information System
	Characteristic?
Option A:	It is useful for routine / repetitive operational process
Option B:	Used directly by top-level executives
Option C:	Tailored to individual executive users
Option D:	Focused on supporting upper-level management decisions.
4.	Which is the process of identifying valid, novel, potential useful and ultimately
	comprehensive information from database that is used to make crucial business
	decisions?
Option A:	Data warehousing
Option B:	Data mining
Option C:	MIS
Option D:	DSS
	Į.

5.	Which technology is designed to address semi structured and unstructured problems?
Option A:	BPR
Option B:	MIS
Option C:	DSS
Option D:	QIS
6.	Except one, all others are the information requirement of Material Requirement Planning (MRP system)
Option A:	Master Production schedule
Option B:	Bill of Material
Option C:	Investment records
Option D:	Inventory records
7.	What is critical link between the marketplace, demand forecasting and master production scheduling?
Option A:	BPR
Option B:	DRP
Option C:	MIS
Option D:	DSS
8.	The component of plant maintenance system which facilitates equipment managers to recognize components with persistent repair issues.
Option A:	Preventive maintenance Control
Option B:	Component Tracking
Option C:	Equipment Tracking
Option D:	Plant Maintenance calibration Tracking
	5
9.	system provides information that is useful to all functional areas and encourage cross-functional interaction in manufacturing company
Option A:	MRP-II
Option B:	DRP
Option C:	BOM
Option D:	MPS
10.	Which is a key issue in the formulation of strategic plans in companies?
Option A:	Complexity
Option B:	Security
Option C:	Flexibility
Option D:	Durability

11.	What can be defined in many different ways—excellence, conformance to specifications, fitness for use, value for the price, and so on?
Option A:	Quantity
Option B:	Verification
Option C:	Quality
Option D:	Validation
12.	What means meeting or exceeding customer's requirements for a product or service?
Option A:	Customer satisfaction
Option B:	Customer retention
Option C:	Customer evaluation
Option D:	Customer facilitation
13.	Which process should eliminate those packages that are not at all suitable for the company's business processes?
Option A:	post implementation
Option B:	evaluation
Option C:	pre-evaluation
Option D:	gap analalysis
14.	Which system reveals not only the strengths of a company's business process but also and perhaps more importantly its weaknesses?
Option A:	Information
Option B:	Configuration
Option C:	ERP
Option D:	Management information
-	
15.	method of implementation approach installs ERP system and all associated modules across the entire organization at once in a single major event.
Option A:	Phased rollout approach
Option B:	Big bang approach
Option C:	Parallel adaption approach
Option D:	Combination of Phased-rollout and parallel adoption
16.	In a local Bank when the teller tries to sell you a new product while you are making a deposit. This strategy of adding the new customers fall into which following category.
Option A:	Empower your customer
Option B:	Integrate sales and services
Option C:	Relationship selling

Option D:	Self-sevice solution
17.	is the primary step in e-business design.
Option A:	Self Judgement
Option B:	Selecting the type of design
Option C:	Design refinement
Option D:	Design creation
18.	The third level of Enterprise architecture planning is
Option A:	Getting started
Option B:	The vision of where we want to be
Option C:	Where we are today
Option D:	How we plan to get there.
19.	Self-service solutions has impacted which of the following business force.
Option A:	Intermediary or Middlemen
Option B:	Self-employed
Option C:	Regular-salaried workforce
Option D:	Casual workers
20.	Which of the following e-business design uses the internet as a new channel to
	directly access customers, make sales and fulfill orders
Option A:	Category killer
Option B:	Channel reconfiguration
Option C:	Infomediary
Option D:	Channel mastery

Q2	Solve any Four out of Six	5 marks each
(20 Marks)		
Α	Describe Business Modeling Process	
В	What are the elements of CRM? Explain in brief	
С	Define Lead time and Cycle time	
D	Write short notes on OLAP	
E	Explain up-selling and cross-selling with examples.	
F	How does an ERP system help in achieving better	customer satisfaction?

Q3.	Solve any Two Questions out of Three	10 marks each
(20 Marks)		
А	List and explain phases of ERP Implementation	
В	Explain ERP's Finance Module and Quality managem	nent module in detail.
	Explain in detail e- Procurement Process. Also disc	cuss the advantages of
	adopting e-Procurement	

Examinations Commencing from 1st June 2021

Program: Information Technology Curriculum Scheme: Rev2016 Examination: BE Semester VIII

Course Code: ITDLO8045 and Course Name: Enterprise Resource Planning

Time: 2 hour Max. Marks: 80

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

Examinations Commencing from 1st June 2021

Program: Information Technology Curriculum Scheme: Rev2016 Examination: BE Semester VIII

Course Code: ITC802 and Course Name: Internet of Everything

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	are the entity identifiers of the IoT application.
Option A:	Thing identifiers
Option B:	Device identifiers
Option C:	User identifiers
Option D:	Communication identifiers
2.	Thein the objects help the IoT devices interact with physical entities.
Option A:	Data
Option B:	Process
Option C:	Actuators
Option D:	Sensors
3.	RFID tags are also referred as
Option A:	Transponder
Option B:	Transmitter
Option C:	Receiver
Option D:	Responder
4.	Intag, the battery/energy source is not used for communication.
Option A:	Active
Option B:	Passive
Option C:	Semi-Passive
Option D:	Active and Passive
5.	RFID functions mainly involve three aspects like
Option A:	Monitoring, Learning, Predicting
Option B:	Monitoring, Tracking, Learning
Option C:	Tracking, Learning, Supervising
Option D:	Monitoring, Tracking, Supervising
6.	STT stands for
Option A:	Smart Tree Traversal Protocol
Option B:	Smart Trend Traversal Protocol

Option C:	Smart Tree Training Protocol
Option D:	Smart Trend Training Protocol
Орион Б.	Smart frema framing Protocol
7.	BAT anti-collision protocol is used for
Option A:	·
Option B:	Active Tags Passive Tags
Option C:	Semi Passive Tags
Option D:	Semi Active Tags
орион Б.	Seria recive rags
8.	NFC works on the principle of
Option A:	Electromagnetic Wave Propagation
Option B:	Skywave propagation
Option C:	Magnetic induction
Option D:	NFC works on the principle of
9.	CoAP stands for
Option A:	Constrained Application Protocol
Option B:	Cost dependent Application Protocol
Option C:	Core Application Protocol
Option D:	Cooperative Application Protocol
10.	Sensor MAC (S-MAC) and Timeout MAC (T-MAC) are example of:
Option A:	Efficiency based protocol
Option B:	contention-based protocols
Option C:	reservation based protocols
Option D:	schedule-based protocols
-	
11.	Y-MAC
Option A:	Is a TDMA-based multi-channel MAC protocol, allocates a time slot to each node
	in the network, Time is divided into several variable-length frames, and each
	frame is having a broadcast period.
Option B:	Is a TDMA-based multi-channel MAC protocol, allocates a time slot to each node
	in the network, Time is divided into several frames, and each frame is composed
	of a unicast period
Option C:	Is a TDMA-based multi-channel MAC protocol, allocates a time slot to each node
, op., o.,	in the network, Time is divided into several fixed-length frames, and each frame is
	composed of a broadcast period and a unicast period
Option D:	Is a CSMA-based multi-channel MAC protocol, allocates a time slot to each node
Spilon D.	in the network, Time is divided into several fixed-length frames, and each frame is
	composed of a broadcast period and a unicast period
	composed of a broadcast period and a difficast period
12.	Greedy-face-greedy routing is a variant of
Option A:	Gradient based routing

Option B:	Geographic routing	
Option C:	Multi hop routing	
Option D:	Greedy routing	
'		
13.	In GRAB, α (used) = $P_{\text{(consumed)}} + C_{\text{(receiver)}} - C_{\text{(source)}} \alpha$ refers to	
Option A:	: the amount of power assigned to the packet at the source, it determines the	
	"height" of the forwarding mesh.	
Option B:	the amount of credit assigned to the packet at the source, it determines the	
	"width" of the forwarding mesh.	
Option C:	the amount of debit assigned to the packet at the source, it determines the	
	"width" of the forwarding mesh.	
Option D:	the amount of budget assigned to the packet at the source, it determines the	
	"height and width" of the forwarding mesh.	
14.	In active mode of link layer handoff session	
Option A:	the HN sends in additional PROBE broadcast packets on each channel and receives	
	probe responses from AP	
Option B:	the MN sends in additional PROBE broadcast packets on each channel and	
	receives probe responses from AP.	
Option C:	the MN listens for beacon messages (sent periodically by the AP), on assigned	
	channels.	
Option D:	the MN terminates upon the reception of an ASSOCIATION RESPONSE message.	
15.	The link layer handoff comprises four steps: 1. Recognizing the loss of the	
	connection 2. Re-/Authentication with the newly discovered AP 3. Search for and	
0	detection of a new adequate AP 4. Re-/Association with the newly discovered AP	
Option A:	1-2-3-4	
Option B:	1-3-2-4	
Option C:	4-3-2-1	
Option D:	2-1-3-4	
16.	In 12 handover, movement detection mechanisms is divided into:	
	In L3 handover, movement detection mechanisms is divided into: advertisement based and hidden based	
Option A:		
Option B:	advertisement based and on demand hint based	
Option C:	advertisement based and hint based	
Option D:	Computing based and hint based	
17.	In MIP the main issue when transmitting real-time traffic is non-synchronization	
1/.	of the handover process at the	
Option A:	Link and network layers	
Option B:	Link and application layers	
Option C:	datalink and network layers	
Option C:	uataiiik allu lietwoik layeis	

Option D:	Physical and network layers	
18.	Which of the following features you will use for accessing third-party jars during	
	the execution of MapReduce job?	
Option A:	Distributed cache	
Option B:	Speculative execution	
Option C:	Data locality	
Option D:	Erasure coding	
-		
19.	is a Java web application used to schedule Apache Hadoop jobs.	
Option A:	Oozie	
Option B:	Impala	
Option C:	storm	
Option D:	Mahout	
20.	is a parallel processing framework that is used for in-memory	
	processing to boost big data applications.	
Option A:	Apache Oozie	
Option B:	Apache Storm	
Option C:	Apache Spark	
Option D:	Apache Hadoop	
-		

Q2.	Attempt both the sections 2A and 2B	20 marks
Α	Solve any Two 5	marks each
i.	Explain different Identifier in IOT	
ii.	Draw Hadoop architecture and explain its different components.	
iii.	Describe STT protocol.	
В	Solve any One	LO marks each
i.	Explain in detail the working of Gradient Based Routing protocol.	
ii.	Discuss in detail the design and working of Mobile IP (MIP) – IETF communication	
	protocol - IEEE 802.11 - along with its issues.	

Q3.	Attempt both the sections 3A and 3B	20 marks
Α	Solve any Two 5 mar	ks each
i.	Describe the functional architecture of Puppet.	
ii.	State the factors that need to be taken care of while designing an RFID.	
iii.	Describe BAT protocol.	
В	Solve any One 10 ma	arks each
i.	What do you mean by Resource in the REST framework? What creating RESTFull web services?	t are the tools used for
ii.	Explain the process of Network layer handoff in MIP along wit and active scanning in the same.	h the working of passive

Examinations Commencing from 1st June 2021

Program: Information Technology Curriculum Scheme: Rev2016 Examination: BE Semester VIII

Course Code: ITC802 and Course Name: Internet of Everything

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

Examinations Commencing from 1st June 2021 Program: BE(INFORMATION TECHNOLOGY)

Curriculum Scheme: Rev2016 Examination: BE Semester VIII

Course Code: ITDLO8042 and Course Name: Information Retrieval System

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks	
	· , , .	
1.	is usually provided by most modern information retrieval systems.	
Option A:	Information and knowledge retrieval	
Option B:	Information or knowledge retrieval	
Option C:	Information and data retrieval	
Option D:	Information or data retrieval	
2.	Which operations transform the original documents and generate a logical view of them?	
Option A:	The text operations	
Option B:	The query operations	
Option C:	Indexing operations	
Option D:	Searching Operations	
3.	Which visualization technique supports the analysis of large hierarchical structure data?	
Option A:	Panning and zooming	
Option B:	Tree views	
Option C:	Focus and context	
Option D:	Brushing and linking	
4.	Which of the following is not a classical model of information retrieval?	
Option A:	Boolean	
Option B:	Cluster	
Option C:	Probabilistic	
Option D:	Vector space	
5.	Humans are highly attuned to for visualization and understanding	
Option A:	Image	
Option B:	Text	
Option C:	Animation	
Option D:	inherently abstract information	
	Military of the fellowing state and in fellowing the fellowing state of the fellowing state	
6.	Which of the following statement is false with regards to Boolean retrieval model?	
Option A:	It answers query based on Boolean expression	
Option B:	It views document as a set of terms	
Option C:	It is very precise as it meets a very specific condition	

Option D:	It cannot combine two operators "AND NOT" and "OR-NOT"	
7.	In which model, the query term defines a fuzzy	
Option A:	Boolean	
Option B:	Vector	
Option C:	Probabilistic	
Option D:	Set theoretic	
8.	Which of the following items is not a component of a complete search system?	
Option A:	Document cache	
Option B:	Horizontal index	
Option C:	Spell correction	
Option D:	Indexes	
9.	With Boolean querying system of document is not provided	
Option A:	Highlights occurrence of the word	
Option B:	Ranking	
Option C:	Sorting	
Option D:	Feedback	
10.	What is a sequence of single word queries called as?	
Option A:	What is a sequence of single word queries called as? Boolean	
Option B:	Natural Language	
Option C:	Phrase	
Option D:	Regular expression	
option 5.	Negarar expression	
11.	In the following words observe the pattern and tell the type of pattern match	
	Computer , Computation, Computing	
Option A:	Prefix matching	
Option B:	String matching	
Option C:	word matching	
Option D:	Suffix matching	
12.	A pattern is defined as a set of	
Option A:	Systematic and meaning full ranking of documents	
Option B:	Combination of Boolean feature and ranking	
Option C:	Symmetric feature	
Option D:	Syntactic feature	
13.	An information retrieval object is identified by components.	
Option A:	one (Tasks)	
Option B:	two (Tasks and Context)	
Option C:	three (Tasks, Form, and Context)	
Option D:	zero	
14.	Which of the following software text search algorithm is fastest?	
Option A:	Brute Force Approach	

Option B:	Knuth-Morris-Pratt	
Option C:	Boyer-Moore	
Option D:	Robin-Karp	
15.	is the automatic recognition and the generation of categories of	
	entities that can be text documents.	
Option A:	Clustering	
Option B:	Gathering	
Option C:	Crawling	
Option D:	Browsing	
16.	A metric derived by taking the log of N divided by the document frequency where	
	N is the total number of documents in a	
Option A:	Document frequency	
Option B:	tf-idf weight	
Option C:	collection frequency	
Option D:	inverse document frequency	
17.	A good compression algorithm is able to reduce the text toof its original.	
Option A:	20-25%	
Option B:	40-45%	
Option C:	25-30%	
Option D:	30-35%	
18.	Which of the following can also be compressed independently of the index?	
Option A:	Image	
Option B:	Audio	
Option C:	Text	
Option D:	Video	
19.	Searching and compression were traditionally regarded as operations.	
Option A:	inclusive	
Option B:	independent	
Option C:	exclusive	
Option D:	dependent	
20.	Knuth-Marris-Pratt algorithm moves	
Option A:	a window over the text and a pointer inside the window	
Option B:	a window below the text and a pointer outside the window	
Option C:	a window over the text and a pointer outside the window	
Option D:	a window below the text and a pointer inside the window	

Q2	Solve any Two Questions out of Three	10 marks each
Α	Explain the Retrieval Process with diagram.	
В	What is an information access process? Explain wit	th diagram.

С	What are different models for Browsing? Explain any one in detail.
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Q3.		
Α	Solve any Two	5 marks each
i.	Explain Metadata in detail.	
ii.	Compare different Text Comparison Techniques.	
iii.	Write short note on- Pattern Matching.	
В	Solve any One	10 marks each
i.	What are the different classical information retrieval models available? Explain any one in detail.	
ii.	Explain in detail about Search Engine.	

Examinations Commencing from 1st June 2021

Program: BE (INFORMATION TECHNOLOGY)

Curriculum Scheme: Rev2016 Examination: BE Semester VIII

Course Code: ITDLO8042 and Course Name: Information Retrieval System

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

Examinations Commencing from 1st June 2021

Curriculum Scheme: Rev2016 Examination: BE Semester VIII

Course Code: ITDLO8043 and Course Name: Knowledge Management

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks		
1.	The two major forms of knowledge, tacit and explicit, are distinguished by		
Option A:	Grew out of a different KM root discipline		
Option B:	The fact that they represent two different extremes in a spectrum that represents how		
	well the knower can articulate the content.		
Option C:	Arose at a different point in time during the evolution of the KM concept		
Option D:	Are used in different types of organizations		
2.	relates to the understanding that we develop through our past actions.		
Option A:	Experience		
Option B:	Common sense		
Option C:	Action		
Option D:	Flow		
3.	Knowledge acquired through years of proper experience is		
Option A:	Shallow Knowledge		
Option B:	Deep Knowledge		
Option C:	Formal Knowledge		
Option D:	Knowledge as Know-How		
4.	Which of the following is not part of knowledge management?		
Option A:	Production		
Option B:	Creativity		
Option C:	Research		
Option D:	Strategy		
5.	The definition of a best practice is		
Option A:	Learning through repeated practice		
Option B:	Learning through trial and error		
Option C:	The optimal way of performing a task according to published theory		
Option D:	A successful outcome by your peers that you can replicate		
6.	The layer of the KM system creates a competitive edge for the		
	learning organization.		
Option A:	authorized access		
Option B:	Middleware		
Option C:	Transport		

0 11 5	Wassaladan asabiisa asalisatian	
Option D:	Knowledge-enabling application	
_	La MACI Calle da la	
7.	In KMSLC, the knowledge developer tests the evaluating system from of the cycle	
Option A:	End End	
Option B:	Start	
Option C:	Middle	
Option D:	Any point	
Орион Б.	7 ary point	
8.	The set of processes developed in an organization to create, gather, store, transfer, and	
0.	apply knowledge, best describes:	
Option A:	organizational learning	
Option B:	knowledge management	
Option C:	organizational memory	
Option D:	knowledge assets	
9.	When an inexperienced and unskilled employee is placed in work environment, he learns	
	and acquired new knowledge and skill. In this situation one of the SECI processes has	
0 11 1	implemented that process is	
Option A:	Skills Details Asset	
Option B:	Patent Asset	
Option C:	Intellectual Rights	
Option D:	Intellectual Capital	
10		
10.	The approach used to capture, describe, and subsequently code knowledge depends on the	
Option A:	Testing	
Option B:	data mining	
Option C:	type of knowledge	
Option D:	Database	
Special 21		
11.	In Protocols are collected by asking experts to solve the specific problem and	
	verbalize their decision process by stating directly they think.	
Option A:	Protocol Analysis	
Option B:	Consensus Decision making	
Option C:	Repertory Grid	
Option D:	Black Boarding	
12.	The, which provides access to the information assets of the company via the logic	
	incorporated in the process layer.	
Option A:	data	
Option B:	Process	
Option C:	Network	
Option D:	user interface	
13.	is used for capturing and evaluating the expert's model	
Option A:	Protocol Analysis	
Option B:	Consensus Decision making	
Option C:	Repertory Grid	

Option D:	Black Boarding			
14.	are conditional statement that specify an action to be taken if a certain condition is true			
Option A:	Frames			
Option B:	Production rule			
Option C:	CBR			
Option D:	Decision Tables			
15.	The Classifies and categorizes a problem domain using his/her own model.			
Option A:	Domain Expert			
Option B:	User			
Option C:	DBA			
Option D:	Tester			
16.	Knowledge can be preserved in all of the following forms EXCEPT:			
Option A:	Patents			
Option B:	Books			
Option C:	Documentaries			
Option D:	Languages			
17.	is make sure that the system produces correct results.			
Option A:	User Acceptance testing			
Option B:	Knowledge testing			
Option C:	Software testing			
Option D:	Logical testing			
18.	Which of the following is the knowledge that people carry in their minds and is, therefore, difficult to access?			
Option A:	Explicit knowledge			
Option B:	Tacit knowledge			
Option C:	Procedural knowledge			
Option D:	Declarative knowledge			
19.	Represent knowledge about a particular idea in a data structure called			
Option A:	Frames			
Option B:	Production rule			
Option C:	CBR			
Option D:	Decision Tables			
20.	is a level of testing that validates the complete and fully integrated software product			
Option A:	Software testing			
Option B:	Logical testing			
Option C:	Knowledge testing			
Option D:	System testing			
	-			

Q2		
(20 Marks Each)		
Α	Solve any Two 5 marks each	
i.	What is logical testing? List any four advantages of logical testing.	
ii.	Explain with example knowledge, information and data.	
iii.	Explain knowledge capture and knowledge codification.	
В	Solve any One 10 marks each	
i.	Briefly explain about Nonaka's model of knowledge creation and	
	transformation.	
ii.	Write a short note on impact of KM on society and organization.	

Q3			
(20 Marks Each)			
Α	Solve any Two 5 marks each		
i.	Describe the Challenges in Building KM Systems.		
ii.	What is knowledge management? Explain need of KM.		
iii.	Define Knowledge worker and list out roles of knowledge worker.		
В	Solve any One	10 marks each	
i.	What is meant by Knowledge transfer? Explain diff knowledge transfer.	ferent methods of	
ii.	Define Knowledge Capture. What are the different knowledge capture? Explain any 3 techniques with	•	

Examinations Commencing from 1st June 2021

Program: _____

Curriculum Scheme: Rev2016 Examination: BE Semester VIII

Course Code: ITDLO8043 and Course Name: Knowledge Management

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

Examinations Commencing from 1st June 2021

Program: **Mechanical Engineering**Curriculum Scheme: Rev 2016
Examination: BE Semester VIII

Course Code: ILO 8021 and Course Name: Project Management

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks		
1.	Projects are unique and temporary, while operations are		
Option A:	Specific And Targeted		
Option B:	Ongoing and Permanent with a Repetitive Output		
Option C:	Unique And Permanent With Non-Repetitive Outputs		
Option D:	Ongoing And Temporary		
2	From a practical perspective, what is the most important element of a good project communication management approach?		
Option A:	Setup a regular and frequent method for communicating with team members and stakeholders and then follow it.		
Option B:	Conduct one-on-one meetings (face-to-face or virtual) with project team members every week.		
Option C:	Ensure all project communication between team members and stakeholders goes through the Project Leader so that there is no opportunity for misunderstanding.		
Option D:	Telephonic conversation, and Emails		
3.	The lowest element in the hierarchical breakdown of the WBS is		
Option A:	Work package		
Option B:	Responsibility matrix		
Option C:	Bottoms up budget		
Option D:	Deliverable		
4.	Use of PMIS is comparatively less in this process group of project management		
Option A:	Initiating		
Option B:	Executing		
Option C:	Monitoring and Controlling		
Option D:	Planning		
5.	Which of the following represents the estimated value of the work actually accomplished?		
Option A:	Earned value (EV)		
Option B:	Planned value (PV)		
Option C:	Actual cost (AC		
Option D:	Cost variance (CV)		

6.	is the discounting rate, which delivers a Net			
Present Value equal to zero				
Option A:	ARR			
Option B:	IRR			
Option C:	NPV			
Option D:	Profitability Index			
•				
7.	Project is stopped due to either its successful or unsuccessful conclusion.			
	Auditing, team on new assignment, assets transferred as per policy is known as:			
Option A:	Extinction			
Option B:	Addition			
Option C:	Integration			
Option D:	Starvation			
8.	The process of partnering is an attempt to mitigate he risk associated with			
Option A:	Networking			
Option B:	Uncertainty			
Option C:	Risks			
Option D:				
Οριίοπ υ.	Subcontracting			
9	Project Risk =* Consequences of Event.			
	None of the above			
Option A:	Loss			
Option B:	Outcomes of Event			
Option C:	Probability of Event			
Option D:	Profit			
10.	What is the correct coguence of stages in group development			
	What is the correct sequence of stages in group development			
Option A:	Forming, Norming, Performing, Storming, Adjourning			
Option B:	Forming, Norming, Storming, Performing , Adjourning			
Option C:	Forming, Storming, Norming, Performing, Adjourning			
Option D:	Forming, Performing, Norming, Storming , Adjourning			
11.	An activity has an optimistic time 11 days, a most likely time of 15 days, and a			
	pessimistic time of 23 days. What is its variance?			
Option A:	15.6			
Option B:	16.33			
Option C:	4			
Option D:	2			
12.	What are the determinants of project success as per Iron Triangle?			
Option A:	Resources, Cost, Performance			
Option B:	Knowledge, Time, Resources			
Option C:	Cost, Skills, Performance			
Option D:	Cost, Performance, Time			
•				

12	What is the samest services for the following processes of Duciest Disk			
13	What is the correct sequence for the following processes of Project Risk			
	Management:			
	1. Plan Risk Management;			
	2. Perform Qualitative Risk Analysis;			
	3. Identify Risks;			
	4. Perform Quantitative Risk Analysis;			
	5. Plan Risk Responses;			
Onting	6. Control Risks 1-2-3-4-5-6			
Option A: Option B:	1-3-2-4-5-6			
Option C:	1-3-4-2-5-6			
Option C:	3-1-2-4-5-6			
Орион В.	3-1-2-4-3-0			
14.	Arrange the following elements of the Project Cycle in the right order:			
	A- Project Appraisal			
	B- Feasibility Analysis			
	C- Negotiation			
	D- Project Selection			
	b Project Selection			
Option A:	A-B-C-D			
Option B:	B-A-C-D			
Option C:	B-A-D-C			
Option D:	B-C-A-D			
15.	An activity takes 4 days to complete at a normal cost of Rs.500. If it is possible to			
	complete the activity in 2 days with an additional cost of Rs.700, what is the			
	incremental cost of activity.			
Option A:	100			
Option B:	125			
Option C:	1000			
Option D:	250			
16.	In PERT/CPM, slack time is :			
Option A:	Is the amount of time a task may be delayed without changing the overall project			
	completion time			
Option B:	Is the latest time an activity can be started without delaying the entire project			
Option C:	Is a task or subproject that must be completed			
Option D:	Marks the start or completion of a task			
47	The section of the consequence of the sector			
17.	The review of the successes and the mistakes is normally held during phase.			
Option A:	Initiation			
Option B:	Planning			
Option C:	Execution			
Option D:	Closure			
18.	Cost performance index value is less than 1 indicates :			
Option A:	Cost under run			
Option A.	COST UNICE TUIL			
Option B:	Cost overrun			

Option C:	Cost average					
Option D:	Cost Variance					
19.	Why does scope creep cause a delay on a project?					
Option A:	The project resources are doing the scope creep work and not the originally					
		planned work, causing the originally planned tasks to be delayed.				
Option B:	<u> </u>	ostponed until the	_	-	ep is define	d.
Option C:	· · · · · · · · · · · · · · · · · · ·	es task estimates t				
Option D:	Scope creep caus	es cost estimates t	o increase.			
20.	Goldratt's critical o	hain method is base	d on			
Option A:	Theory of constrain		<u> </u>			
Option B:	Critical path metho					
Option C:	Supply of raw mate					
Option D:		engineering principle	<u> </u>			
		0 01 1				
Q.2	Solve any Four ou	it of Six .		5 M	arks Each	
Α	What are the knowledge areas and process groups in Project Management as per PMI?			nent as per		
В	Explain various pr	oject selection mod	dels.			
С	•	critical chain meth				
	Determine the net	present value for a p	project that	costs Rs. 2,40	,000/- would	yield after
	ta	x cash flows as follow	vs. Assume	cost of capita	l is 10%	
			Year		low in Rs.	
D			1		,000	
			3		,000,000	
			4		0,000	
	Comment on feasib	ility of project based			, , , , ,	
E	Explain importance	e of ethics in proje	cts.			
F	What are the diffe	erent ways of closin	ng the proje	ect?		
Q.3	Solve any Two Qเ	estions out of Thr	ee	10	Marks Each	
	a. A consultir	ng project has an a	ctual cost o	f Rs. 45000,	Scheduled c	ost Rs.
	35000, and value of completed work is Rs. 40000. Find the Schedule and					
A	Cost Variance. Also find SPI and CPI.					
	b. What is a	contract? Explain c	lifferent typ	pes of contra	acts.	
	R & D project has	a list of tasks to be	performed	l whose time	estimates a	re given in
	the as follows.					
		Table-1-Time Es	timation fo	r R &D Projec	t	1
	Activity	Activity Time	to	t m	tр	
	i j		_		_	
В	1-2	A	4	6	8	
	1-3	В	2	3	10	
	1-4	<u>C</u>	6	8	16	
	2-4	D	1	2	3	
	3-4	<u>E</u>	6	7	8	
	3-5	F	6	7	14	

	4-6	G	3	5	7	
	4-7	Н	4	11	12	
	5-7	I	2	4	6	
	6-7	J	2	9	10	
	 a. Draw the project network. b. Find the critical path. c. Find the probability that the project is completed in 19 days. If the probability is less than 20%, find the probability of completing it in 24 days. 					
С	Write short notes on. a. Work Breakdown Structure b. Project Procurement Management,					

Examinations Commencing from 1st June 2021

Curriculum Scheme: Rev 2016 Examination: BE Semester VIII

Course Code: ILO 8021 and Course Name: Project Management

Time: 2 hour Max. Marks: 80

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

Examinations Commencing from 1st June 2021

Program: **Information Technology** Curriculum Scheme: Rev 2016 Examination: BE Semester VIII

Course Code: ITDLO8041 and Course Name: User Interaction Design

Q1.	Choose the correct option for following questions. All the Question compulsory and carry equal marks	
	compulsory and carry equal marks	
1.	Which of the following is not a design principle that allows the user to maintain	
	control?	
Option A:	Provide for flexible interaction	
Option B:	Allow user interaction to be interrupt-able and undo-able	
Option C:	Show technical internals from the casual user	
Option D:	Design for direct interaction with objects that appear on the screen	
2.	A central concern of interaction design is to develop interactive products that	
	are:	
Option A:	Usable	
Option B:	Adaptable	
Option C:	Maintainable	
Option D:	Scalable	
3.	Which of these activities is not a part of interaction design process	
Option A:	Identifying needs and establishing requirements.	
Option B:	Developing alternative designs that meet those requirements.	
Option C:	Building interactive versions of the designs so that they can be communicated	
	and assessed.	
Option D:	Maintaining the design over the years	
4.	Which of these is not an usability goal	
Option A:	Safety	
Option B:	Learnability	
Option C:	Utility	
Option D:	Fault Tolerance	
5.	occurs when we use a tool or device in conjunction with	
	an external representation to help us carry out a computation.	
Option A:	Cognitive Thinking	
Option B:	Computational Offloading	
Option C:	Memorability	
Option D:	Internal offloading	

6.	Studying for an exam, learning a foreign language, and learning to cook are an		
	example of		
Option A:	Incidental learning		
Option B:	Intentional learning		
Option C:	Perception		
Option D:	Attention		
7.	Issuing commands and selecting options is a interaction type.		
Option A:	Instructing		
Option B:	Conversing		
Option C:	Manipulating		
Option D:	Exploring		
8.	refers to how good a system is at doing what it is supposed to do.		
Option A:	Utility		
Option B:	Efficiency		
Option C:	Memorability		
Option D:	Effectiveness		
9.	What are rich descriptions of typical users of the product under development on		
	which the designers can focus and for which they can design products.		
Option A:	Personas		
Option B:	Scenarios		
Option C:	Use cases		
Option D:	Design fiction		
10.	Identify the task description which focuses on functional requirements and		
capture interaction and can be used in design or to capture require			
Option A:	Personas		
Option B:	Scenarios		
Option C:	Use cases		
Option D:	Design fiction		
11.	Requirements refer to the circumstances in which the interactive		
	product will operate.		
Option A:	Functional		
Option B:	Data		
Option C:	Usability goals		
Option D:	Environmental		
12.	Small pieces of cardboard about 3 × 5 inches is a successful and simple way to		
	prototype an interaction which is called as		
Option A:	Storyboard		
Option B:	Sketch		
Option C:	Index Cards		
Option D:	System		

13.	Which of the following is the most likely interface metaphor used by a smart		
	phone calendar function?		
Option A:	Restaurant menu		
Option B:	Touch-screen interface		
Option C:	A paper diary		
Option D:	Mobile technology.		
14.	A prototype that evolves into the final product and is built with these		
	engineering principles in mind is called		
Option A:	Throwaway prototyping		
Option B:	Evolutionary prototyping		
Option C:	Paper prototyping		
Option D:	Low-fidelity prototyping		
15.	Users would appreciate a "Thank You" message and a proof of purchase receipt		
	when they've completed an online purchase. This follows which of the 8 Golden		
	rules of interface design.		
Option A:	Strive for consistency		
Option B:	Enable frequent users to use shortcuts		
Option C:	Design dialogue to yield closure		
Option D:	Permit easy reversal of action		
16.	"Dialogs should not contain information that is irrelevant or rarely needed" is		
	mapped by which heuristic?		
Option A:	Aesthetic and Minimalist Design		
Option B:	Help and Documentation		
Option C:	Consistency and Standards		
Option D:	User Control and Freedom		
17.	Which of the following is a usability guideline for navigation?		
Option A:	Using sitemaps		
Option B:	Use appropriate page and line lengths		
Option C:	Avoid horizontal scrolling		
Option D:	Avoid using too many image links		
18.	A method that does not require human participants serving as test users is the		
Option A:	Usability test		
Option B:	Experiments		
Option C:	In-the-wild studies		
Option D:	Heuristic evaluation		
19.	It provides a way of examining the performance of an already existing product,		
	such as a website, so that it can be improved.		
Option A:	Requirements Gathering		
Option B:	Analytics		
Option C:	Prototyping		
Option D:	Designing		

20.	Evaluations that are carried out to assess the success of a finished product are
	known as
Option A:	formative evaluations
Option B:	analytics
Option C:	heuristic evaluation
Option D:	summative evaluations

Q2 (20 Marks)		
A	Solve any Two	5 marks each
i.	What is Usability? Explain different usability go	pals.
ii.	What is Prototyping? Why is it needed?	
iii.	What care will you take while designing an inte	erface for a blind person?
В	Solve any One	10 marks each
i.	Illustrate the concept of heuristic evaluation.	
ii.	Explain different interview styles	

Q3.	Solve any Two Questions out of Three	10 marks each
(20 Marks)		
А	Summarize Principles of good UI Design.	
В	Write a note on Good Error Messages with examples	
С	Explain Experimental Design and its types.	

Examinations Commencing from 1st June 2021

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

Course Code: ITDLO8041 and Course Name: User Interaction Design

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