

## Sample-Module 1

Q=QUESTION		question_explanation	question_type	question_difficulty
A=ANSWER	answer_description	answer_explanation	answer_isright	answer_position
Q	Which language is preferred for IoT analytics ?		L	1
A	C ++		0	1
A	Python		1	2
A	HTML		0	3
A	PHP		0	4
Q	.....Is a cluster Management Technology and one of the key features in second generation Hadoop		H	1
A	value		0	1
A	cloud		0	2
A	yarn		1	3
A	hbase		0	4
Q	IOT provides platform where different devices can communicate store and retrieve data through .....language		M	1
A	many		0	1
A	only 2		0	2
A	1 common		1	3
A	any		0	4
Q	Which of the following sensor is non contact type sensor that detects the presence of an object		M	1
A	temperature sensor		0	1
A	proximity sensor		1	2
A	pressure sensor		0	3
A	light sensor		0	4
Q	Which of the following is an electromechanical device that will measure acceleration forces		M	1
A	pressure sensor		0	1
A	accelerometer		1	2
A	proximity sensor		0	3
A	IR sensor		0	4

Q	Which sensor is a component in smartphones notebooks and other mobile devices		L	1
A	IR sensor		0	1
A	pressure sensor		1	2
A	light sensor		0	3
A	ultrasonic sensor		0	4
Q	Which of the following device is also called as a photodetector		L	1
A	IR sensor		0	1
A	pressure sensor		0	2
A	light sensor		1	3
A	ultrasonic sensor		0	4
Q	Which of the following sensor is a type of sensor that detects physical touch or proximity		L	1
A	touch sensor		1	1
A	proximity sensor		0	2
A	light sensor		0	3
A	ultrasonic sensor		0	4
Q	The colour sensor detects the colour of the surface usually in .....scale		L	1
A	black and white		0	1
A	RGB		1	2
A	black		0	3
A	can not be determine		0	4
Q	The amount of water present in surrounding air is measured by which sensor		L	1
A	flow and level sensor		0	1
A	tilt sensor		0	2
A	humidity sensor		1	3
A	colour sensor		0	4
Q	..... are physical or behavioral human characteristics which can be used to digitally identify a person to grant access to systems devices or data		M	1
A	actuator		0	1
A	biometric		1	2
A	barcode		0	3
A	QR code		0	4

Q	Which of the following is a cluster Management Technology and one of the key feature in second generation Hadoop		M	1
A	Veracity		0	1
A	cloud		0	2
A	yarn		1	3
A	h base		0	4
Q	Which of the following is an open source data warehouse system for caring and analysing large data sets store in Hadoop file		M	1
A	spark		0	1
A	hive		1	2
A	pig		0	3
A	yarn		0	4
Q	Z wave operates on the low frequency speed		H	1
A	908.42 band		1	1
A	250 band		0	2
A	1080 band		0	3
A	1024.00 band		0	4
Q	NFC is a limited to a distance of approximately ..... While bluetooth can reach over 30 feet		M	1
A	4cm		1	1
A	4m		0	2
A	1m		0	3
A	1ft		0	4

## Sample-Module 2

Q=QUESTION	question_description	question_explanation	question_type	question_difficulty
A=ANSWER	answer_description	answer_explanation	answer_isright	answer_position
Q	Which of the following is not an application of RFID		M	1
A	Product Tracking		0	1
A	Libraries		0	2
A	Shipping		0	3
A	Communication between two computers		1	4
Q	Whic RFID tags are costly ?		M	1
A	Semi Passive		0	1
A	Active Tags		1	2
A	Passive Tags		0	3
A	Both Passive and Semi Passive		0	4
Q	In which RFID tag signal is always available		M	1
A	Semi Passive		0	1
A	Active Tags		1	2
A	Passive Tags		0	3
A	Both Passive and Semi Passive		0	4
Q	The tag usually consists of an .....		M	1
A	Integrated Circuit		0	1
A	An antenna		0	2
A	Both Integrated circuit and an Antenna		1	3
A	Integrated antenna		0	4
Q	RFID tag get the information from the tag using .....		M	1
A	Communication lines		0	1
A	RF waves		1	2
A	Bluetooth		0	3
A	Network		0	4
Q	Tag antenna of High Frequency RFID system is ....		M	1
A	Small		1	1
A	Large		0	2
A	Medium		0	3
A	Extra Large		0	4
Q	Which of the following is not a part of the RFID tag		M	1
A	Antenna Coil		0	1
A	Memory and Processor		0	2
A	Detector Diode		0	3
A	ALU		1	4
Q	A RFID system with single antenna is		M	1

	called as ...			
A	Bistatic		0	1
A	Bipolar		0	2
A	Monostatic		1	3
A	Bipolar		0	4
Q	RFID Tag uses ..... modulation technique		M	1
A	Amplitude shift keying		1	1
A	Frequency shift keying		0	2
A	Phase shift keying		0	3
A	Amplitude and Phase shift keying		0	4
Q	RFID system has a high reliability under ..... conditions		M	1
A	Controlled		1	1
A	Uncontrolled		0	2
A	Free space conditions		0	3
A	Dynamic		0	4
Q	Multiple RFID readers working in the space can avoid collision by		M	1
A	Using a technique called as listen-before-Talk		1	1
A	Using ALOHA technique		0	2
A	Using Slotted ALOHA		0	3
A	Using CSMA		0	4
Q	Multiple RFID readers working in the space can avoid collision by		M	1
A	Using a technique called as listen-before-Talk		1	1
A	Using ALOHA technique		0	2
A	Using Slotted ALOHA		0	3
A	Using CSMA		0	4
Q	Which of the following is not correct for RFID systems		M	1
A	RFID systems can be easily disrupted		0	1
A	RFID Reader Collision issues		0	2
A	RFID Tag Collision		0	3
A	RFID has no security and privacy issues		1	4
Q	Can we remove the RFID tags ?		M	1
A	Yes its because they are very small and can break		0	1
A	No , they can be removed easily		0	2
A	It depends on the size of the RFID tag		0	3

A	Some RFID tags can be removed and some cannot		1	4
Q	Can RFID tags be read without our knowledge ?		M	1
A	Yes		1	1
A	No		0	2
A	Depends which RFID tags we use		0	3
A	Yes but we can avoid it with certain kind of RFID tags		0	4
Q	RFID stands for		M	1
A	Radio-Frequency Indication		0	1
A	Radio-Frequency Identification		1	2
A	Radio-Frequency Interconnection		0	3
A	Radio-Frequency Internet		0	4
Q	The information on read-only chips _____ be changed.		M	1
A	Can		0	1
A	Cannot		1	2
A	Sometimes can		0	3
A	never		0	4
Q	RFID tag is has following advantage		M	1
A	It can detect objects from distance		1	1
A	Its cheaper to setup		0	2
A	It does not need any reader		0	3
A	Need clear line of site		0	4
Q	Which of the following is not an application of RFID		M	1
A	Product Tracking		0	1
A	Libraries		0	2
A	Shipping		0	3
A	Communication between two computers		1	4

### Sample-Module 3

Q=QUESTION	question_description	question_explanation	question_type	question_difficulty
A=ANSWER	answer_description	answer_explanation	answer_isright	answer_position
Q	.....are considered as the most fertile field as far as the applications of RFID is concerned		M	1
A	Household		0	1
A	Production		0	2
A	Supply chain management and logistics		1	3
A	Agriculture		0	4
Q	.....type of RFID tag has a battery.		M	1
A	Passive		0	1
A	Semi-passive		0	2
A	Active		1	3
A	Inlays		0	4
Q	The clothing stores uses RFID tags because .....		M	1
A	To track the movement of clothes in the store		0	1
A	To allow the clothes to pass through doors without keys		0	2
A	To keep track of inventory and to prevent clothes from being stolen		1	3
A	To track the cost of each item of clothing		0	4
Q	In Pure ALOHA ..... is two times the frame transmission time.		M	1
A	The exploitation time		0	1
A	The calculated time		0	2
A	The linear time		0	3
A	The vulnerability time		1	4
Q	In pure ALOHA .....is the solution for a collision.		M	1
A	Retransmitting after random delay		1	1
A	Continues Retransmitting		0	2
A	Do not retransmit		0	3
A	Retransmitting after fixed delay		0	4
Q	The advantage of Pure ALOHA		M	1

	algorithm is .....			
A	Availability		0	1
A	confidentiality		0	2
A	efficiency		0	3
A	Simplicity		1	4
Q	In Slotted Aloha, Probability of successful transmission of data packet=		M	1
A	$G \times e^{-2G}$		0	1
A	$G \times e$		0	2
A	$G \times e^{-G}$		1	3
A	$G \times e^{-3G}$		0	4
Q	The query tree protocol (QT) is .....protocols.		M	1
A	Progamme		0	1
A	network		0	2
A	Memoryless		1	3
A	Memory		0	4
Q	Transponder are known as		M	1
A	Tag		1	1
A	Reader		0	2
A	Transimmiter		0	3
A	Aactuator		0	4
Q	Interrogators are known as		M	1
A	Tag		0	1
A	Reader		1	2
A	Transimmiter		0	3
A	Aactuator		0	4
Q	the full form of FSA is .....		M	1
A	Framed single Aloha		0	1
A	Framed Slotted Aloha		1	2
A	Face Site Align		0	3

A	Framed Slotted Antenna		0	4
Q	.....In an RFID is responsible for transmitting and receiving radio waves for smooth communication		M	1
A	tag		0	1
A	reader		0	2
A	antenna		1	3
A	circuit		0	4
Q	MQTTs Protocol is		M	1
A	Machine to Machine		0	1
A	Internet of things		0	2
A	Machine to Machine and Internet of things		1	3
A	Machine things		0	4

### Sample-Module 4

Q=QUESTION	question_description	question_explanation	question_type	question_difficulty
A=ANSWER	answer_description	answer_explanation	answer_is right	answer_position
Q	Which protocols are used for routing?		M	1
A	BGP		0	1
A	AODV & DSR		1	2
A	Distance vector		0	3
A	OSPF		0	4
Q	_____this is a WSN in which nodes are mobile and can change location based on their own or due to environmental changes.		M	1
A	Sensor network		0	1
A	Mobile sensor network		1	2
A	Adhoc network		0	3
A	Local area network		0	4

Q	_____ protocol also contributes in successfully operating & networking nodes.		M	1
A	TCP/IP		0	1
A	Preamble sampling		1	2
A	UDP		0	3
A	HTTP		0	4
Q	MAC is designed for _____, hence known as an energy efficient protocol.		M	1
A	Fast processing		0	1
A	Communication		0	2
A	Sensing accurately		0	3
A	Power supply coordination		1	4
Q	6LoWPAN is a _____ layer protocol.		M	1
A	Physical		0	1
A	Network		1	2
A	Transport		0	3
A	Application		0	4
Q	6LoWPAN is specially designed for _____ devices where communication overhead should be less.		M	1
A	High power devices		0	1
A	Large size devices		0	2
A	Lower powered devices		1	3
A	Low weight devices		0	4
Q	6LoWPAN works over frequency range of _____ & has data transfer rate _____.		M	1
A	2.4GHz & 250Kbps		1	1
A	900MHz & 250Kbps		0	2
A	8.5 GHz & 600Kbps		0	3
A	8.5GHz & 250kbps		0	4
Q	IPv6 header required _____ mechanism to save energy with IPv6 & LoWPAN.		M	1
A	Encryption		0	1
A	Decryption		0	2
A	Extraction		0	3
A	Compression		1	4
Q	MQTT stands for _____		M	1
A	Message query telemetry transport		0	1
A	Message queue telemetry transport		1	2
A	Modified query telemetry transport		0	3

A	Modified queue telemetry transport		0	4
Q	MQTT protocol used in _____ layer.		M	1
A	Physical		0	1
A	Lata link		0	2
A	Application		1	3
A	Network		0	4
Q	MQTT was first developed & deployed by _____.		M	1
A	Microsoft		0	1
A	IBM		1	2
A	APPLE		0	3
A	Google		0	4
Q	MQTT uses _____ model of communication.		M	1
A	Publish subscribe		1	1
A	Request response		0	2
A	Public response		0	3
A	Public request		0	4
Q	In the communication model used by MQTT who handles the queues which manages the topics.		M	1
A	Publisher		0	1
A	Client		0	2
A	Server		0	3
A	Broker		1	4
Q	MQTT works on the top of _____, which maintains the reliability of message & no data loss.		M	1
A	UDP		0	1
A	TCP		1	2
A	HTTP		0	3
A	BGP		0	4
Q	COAP is web transfer protocol and follows _____ model.		M	1
A	Request Response		1	1
A	Query response		0	2
A	Request subscribes		0	3
A	Publish subscribe		0	4
Q	This is one of the characteristics of REST based API.		M	1
A	Code on demand		1	1
A	Scalability		0	2

A	Reliability		0	3
A	Productivity		0	4
Q	Most of REST API works over _____ protocol by using delivery methods offered by it.		M	1
A	TCP		0	1
A	UDP		0	2
A	HTTP		1	3
A	SMTP		0	4
Q	Which layer is responsible for traffic management and converting data into appropriate form		M	1
A	transport layer		0	1
A	network layer		0	2
A	application layer		1	3
A	physical layer		0	4
Q	HART stands for _____		M	1
A	Highway Addressable Remote Transducer		1	1
A	High Addressable Remote Transducer		0	2
A	High Application Remote Transducer		0	3
A	Highway Application Remote Transducer		0	4
Q	CoAP is a specialized _____ protocol		M	1
A	Web Transfer		1	1
A	Power		0	2
A	Application		0	3
A	Resource		0	4
Q	Which is an open standard?		M	1
A	HTTP		0	1
A	MQTT		0	2
A	XMPP		0	3
A	CoAP		1	4
Q	CoAP is specialized in _____		M	1
A	Internet applications		1	1
A	Device applications		0	2
A	Wireless applications		0	3
A	Wired applications		0	4
Q	. ..... is a network of devices connected to internet where in these devices communicate with each others to assign tasks on meet specific requirement		M	1

A	Server		0	1
A	Cloud		0	2
A	IOT		1	3
A	Internet		0	4

### Sample-Module 4

Q=QUESTION	question_description	question_explanation	question_type	question_difficulty
A=ANSWER	answer_description	answer_explanation	answer_is_right	answer_position
Q	Which protocols are used for routing?		M	1
A	BGP		0	1
A	AODV & DSR		1	2
A	Distance vector		0	3
A	OSPF		0	4
Q	_____this is a WSN in which nodes are mobile and can change location based on their own or due to environmental changes.		M	1
A	Sensor network		0	1
A	Mobile sensor network		1	2
A	Adhoc network		0	3
A	Local area network		0	4
Q	_____ protocol also contributes in successfully operating & networking nodes.		M	1
A	TCP/IP		0	1
A	Preamble sampling		1	2
A	UDP		0	3
A	HTTP		0	4
Q	MAC is designed for _____, hence known as an energy efficient protocol.		M	1
A	Fast processing		0	1
A	Communication		0	2
A	Sensing accurately		0	3
A	Powe supply coordination		1	4
Q	6LoWPAN is a _____ layer protocol.		M	1

A	Physical		0	1
A	Network		1	2
A	Transport		0	3
A	Application		0	4
Q	6LoWPAN is specially designed for _____ devices where communication overhead should be less.		M	1
A	High power devices		0	1
A	Large size devices		0	2
A	Lower powered devices		1	3
A	Low weight devices		0	4
Q	6LoWPAN works over frequency range of _____ & has data transfer rate _____.		M	1
A	2.4GHz & 250Kbps		1	1
A	900MHz & 250Kbps		0	2
A	8.5 GHz & 600Kbps		0	3
A	8.5GHz & 250kbps		0	4
Q	IPv6 header required _____ mechanism to save energy with IPv6 & LoWPAN.		M	1
A	Encryption		0	1
A	Decryption		0	2
A	Extraction		0	3
A	Compression		1	4
Q	MQTT stands for _____		M	1
A	Message query telemetry transport		0	1
A	Message queue telemetry transport		1	2
A	Modified query telemetry transport		0	3
A	Modified queue telemetry transport		0	4
Q	MQTT protocol used in _____ layer.		M	1
A	Physical		0	1
A	Lata link		0	2
A	Application		1	3
A	Network		0	4
Q	MQTT was first developed & deployed by _____.		M	1
A	Microsoft		0	1
A	IBM		1	2
A	APPLE		0	3

A	Google		0	4
Q	MQTT uses _____ model of communication.		M	1
A	Publish subscribe		1	1
A	Request response		0	2
A	Public response		0	3
A	Public request		0	4
Q	In the communication model used by MQTT who handles the queues which manages the topics.		M	1
A	Publisher		0	1
A	Client		0	2
A	Server		0	3
A	Broker		1	4
Q	MQTT works on the top of _____, which maintains the reliability of message & no data loss.		M	1
A	UDP		0	1
A	TCP		1	2
A	HTTP		0	3
A	BGP		0	4
Q	COAP is web transfer protocol and follows _____ model.		M	1
A	Request Response		1	1
A	Query response		0	2
A	Request subscribes		0	3
A	Publish subscribe		0	4
Q	This is one of the characteristics of REST based API.		M	1
A	Code on demand		1	1
A	Scalability		0	2
A	Reliability		0	3
A	Productivity		0	4
Q	Most of REST API works over _____ protocol by using delivery methods offered by it.		M	1
A	TCP		0	1
A	UDP		0	2
A	HTTP		1	3
A	SMTP		0	4
Q	Which layer is responsible for traffic		M	1

	management and converting data into appropriate form			
A	transport layer		0	1
A	network layer		0	2
A	application layer		1	3
A	physical layer		0	4
Q	HART stands for _____		M	1
A	Highway Addressable Remote Transducer		1	1
A	High Addressable Remote Transducer		0	2
A	High Application Remote Transducer		0	3
A	Highway Application Remote Transducer		0	4
Q	CoAP is a specialized _____ protocol		M	1
A	Web Transfer		1	1
A	Power		0	2
A	Application		0	3
A	Resource		0	4
Q	Which is an open standard?		M	1
A	HTTP		0	1
A	MQTT		0	2
A	XMPP		0	3
A	CoAP		1	4
Q	CoAP is specialized in _____		M	1
A	Internet applications		1	1
A	Device applications		0	2
A	Wireless applications		0	3
A	Wired applications		0	4
Q	. . . . . is a network of devices connected to internet where in these devices communicate with each others to assign tasks on meet specific requirement		M	1
A	Server		0	1
A	Cloud		0	2
A	IOT		1	3
A	Internet		0	4

## Sample-Module 5

A=ANSWER	answer_description	answer_explanation	answer_isright	answer_positio
Q	How many bits are there for IPv6 address		M	1
A	64 bits		0	1
A	128 bits		1	2
A	32 bits		0	3
A	256 bits		0	4
Q	What is size of IP version number in IPv6		M	1
A	4 bits		1	1
A	8 bits		0	2
A	6 bits		0	3
A	10 bits		0	4
Q	Hop limit field size in IPv6 is		M	1
A	4 bits		0	1
A	10 bits		0	2
A	6 bits		0	3
A	8 bits		1	4
Q	What is use of flow label field in IPv6		M	1
A	identifies sequence of packet		1	1
A	identifies flow of packet		0	2
A	identifies label of packet		0	3
A	identifies version of packet		0	4
Q	URI stand as		M	1
A	universal resource identifier		0	1
A	unique resource identifier		0	2
A	uniform resource identifier		1	3
A	union resource identifier		0	4
Q	URI consists of		M	1
A	UNN and UNA		0	1
A	URN and URL		1	2
A	URN and UNN		0	3
A	URL and UNA		0	4
Q	URL is combination of		M	1
A	name and address		0	1
A	address and location		0	2
A	access method and location		0	3

A	name and access method		1	4
Q	IPv6 provides an address which is		M	1
A	object-oriented mechanism		0	1
A	stateless mechanism		1	2
A	object-specific mechanism		0	3
A	stateful mechanism		0	4
Q	IPv6 compressed version called as		M	1
A	6LoWPAN		1	1
A	6IPWPAN		0	2
A	6IPWPAN		0	3
A	6IPvLoWPAN		0	4
Q	IPv6 offers how many unique addresses		M	1
A	2222		0	1
A	2120		0	2
A	2128		1	3
A	2111		0	4

## Sample-Module 6

A=ANSWER	answer_description	answer_explanation	answer_isright	answer_position
Q	Which of the following is a column-oriented database that runs on top of HDFS		M	1
A	Hive		0	1
A	Sqoop		0	2
A	HBase		1	3
A	Flume		0	4
Q	Which command is used to show all the Hadoop daemons that are running on the machine		M	1
A	distcp		0	1
A	jps		1	2
A	fsck		0	3
A	fsk		0	4
Q	Hadoop is a framework that works with a variety of related tools. Common cohorts include:		M	1
A	MapReduce, Hive and HBase		1	1
A	MapReduce, MySQL and Google Apps		0	2
A	MapReduce, Hummer and Iguana		0	3
A	MapReduce, Heron and Trumpet		0	4
Q	Distributed cache can cache files		M	1
A	Jar Files		0	1
A	Read-only text files		0	2
A	Archives		0	3
A	Jar Files, Read-only text files , archives		1	4
Q	The total number of partitioner is equal to		M	1
A	The number of reducer		1	1
A	The number of mapper		0	2
A	The number of combiner		0	3
A	No of mapper reducer		0	4
Q	Which of the following Hadoop config files is used to define the heap size?		M	1
A	hdfs-site.xml		0	1
A	core-site.xml		0	2
A	<a href="#">hadoop-env.sh</a>		1	3
A	mapred-site.xml		0	4
Q	Which of the following feature you will use submit jars, static files for MapReduce job during runtime		M	1
A	Distributed cache		1	1
A	Speculative execution		0	2
A	Data locality		0	3
A	Erasure coding		0	4

Q	Which of the following method used to set the output directory		M	1
A	FileOutputFormat.setOutputgetpath()		0	1
A	OutputFormat.setOutputpath()		0	2
A	FileOutputFormat.setOutputpath()		1	3
A	OutputFormat.setOutputgetpath()		0	4
Q	Which of the following must be set true enable diskbalnecr in hdfs-site.xml		M	1
A	dfs.balancer.enabled		0	1
A	dfs.disk.balancer.enabled		0	2
A	dfs.diskbalancer.enabled		0	3
A	dfs.disk.balancer.enabled		1	4
Q	Which among the following is configuration files in Hadoop		M	1
A	core-site.xml, yarn-site.xml		0	1
A	hdfs-site.xml, core-site.xml		0	2
A	yarn-site.xml, hdfs-site.xml		0	3
A	core-site.xml, yarn-site.xml, hdfs-site.xml		1	4
Q	Which of the following is used for large inter/intra-cluster copying		M	1
A	fsck		0	1
A	distch		0	2
A	DistCp		1	3
A	dtutil		0	4
Q	Hadoop uses hadoop		M	1
A	Troubleshooting		0	1
A	Performance reporting purpose		0	2
A	Monitoring		1	3
A	Trobleshooting and Monitoring		0	4
Q	Which of the following is used to provide multiple outputs to Hadoop?		M	1
A	MultipleOutputFormat		0	1
A	MultipleOutputs class		1	2
A	FileOutputFormat		0	3
A	DBInputFormat		0	4
Q	An example of a distributed real-time computation system for processing large volumes of high-velocity data.		M	1
A	a) Kafka		0	1
A	b) Storm		1	2
A	c) Lucene		0	3

A	d) BigTop		0	4
Q	Storm integrates with _____ via Apache Slider.		M	1
A	a) Scheduler		0	1
A	b) YARN		0	2
A	c) Compaction		1	3
A	d) Priemptive scheduler		0	4
Q	For Apache _____ users, Storm utilizes the same ODBC interface.		M	1
A	a) cTakes		0	1
A	b) Hive		1	2
A	c) Pig		0	3
A	d) Oozie		0	4
Q	Mark the wrong statement.		M	1
A	a) Storm is difficult and can be used with only Java		1	1
A	b) Storm is fast: a benchmark clocked it at over a million tuples processed per second per node		0	2
A	c) Storm is scalable, fault-tolerant, guarantees your data will be processed		0	3
A	Storm is slow: a benchmark clocked it at over a million tuples processed per second per node		0	4
Q	Storm is benchmarked as processing one million _____ byte messages per second per node.		M	1
A	a) 10		0	1
A	b) 50		0	2
A	c) 100		1	3
A	d) 200		0	4
Q	Apache Storm added open source, stream data processing to _____ Data Platform.		M	1
A	a) Cloudera		0	1
A	b) Hortonworks		1	2
A	c) Local Cloudera		0	3
A	d) MapR		0	4
Q	_____ node distributes code across the cluster.		M	1
A	a) Zookeeper		0	1
A	b) Nimbus		1	2
A	c) Supervisor		0	3
A	Supervisor and Nimbus		0	4

