These are sample MCQs to indicate pattern, may or may not appear in examination.

Mahatma Education Society's Pillai HOC College of Engineering and Technology

Program: BE INFORMATION TECHNOLOGY Engineering Curriculum Scheme: Revised 2016 Examination: BE SEM VII R-2016 Course Code:ITC801 and Course Name: BIG DATA ANALYTICS

Time: 1hour Max. Marks: 50

ONG	OUTGOTON (A. I	OPTIONS				Correct	
Q NO	QUESTION (2 marks per question)	A	В	С	D	Answer	
1	What are the 3v's of Big Data?	volume, velocity	Volume, Velocity	volume,	Variety,	В	
2	Apache Hadoop is an for storage	passive-source	active-source	closed-source	open-source	D	
3	The composition of the data with the	sensitivity of	availability of data	structure of	state of data	С	
4	Human generated data	Financial data	Network log	Input data	Gaming data	Α	
5	What is true about Variety in bigdata?	high in size	speed of data	data from	data in certain	D	
6	which is structured data examples	CSV but XML	social media posts	tab delimited	Medical device	D	
O NO	QUESTION (2 marks per question)		OPTIO	ONS		Correct	
QNO	QUESTION (2 marks per question)	A	В	C	D	Answer	
1	Which type of data storage system cassandra is	distributed	centralized	parallel	dumb	A	
2	The default replication factor in Hadoop is	4	3	5	2	В	
3	What was Hadoop named after?	Creator Doug	Cutting high	The toy	A sound	С	
4	NoSQL CAP theorem	Consistency, Ava	Consistency, Acce	Consistency,A	confidentiality	D	
5	MongoDB provides horizontal scaling through	Replication	Partitioning	Sharding	Document	С	
6	Point out the correct statement.	DataNode	DataNode is the	DataNode is	Hadoop	В	
7	Which of the following is a wide-column store?	Cassandra	Riak	MongoDB	Redis	A	
8	Procedural language for developing parallel	Pig Latin	Hive	Pig	Oozie	С	
9	Cassendra is a popularly known as	distributed	centralized	parallel	dumb	A	
10	When a backup node is used in a cluster there is no	Check point	Secondary data	Secondary	Rack awareness	С	
11	Hadoop developed by	Larry Page	Doug Cutting	Mark	Bill Gates	В	
12	No SQL systems are also referred to as	"Not-On-SQL"	"N-Only-SQL"	"No-only-	"Not-Only-	D	
13	One of classified NoSQL databases is	Key-value	value	key	DataNode	A	
14	A store is a simple database that when	document	key-value	graph	simple	В	
15	Social connectionsstores are used to store in	Stack	Tree	Graph	Documents	С	
16	MongoDB scales horizontally using Sharding for	data balancing	load distribution	memory	load balancing	D	
17	HDFS inherited from file system.	Yahoo	FTFS	Google	Rediff	С	
18	Which is the column-oriented distributed database.	HBase	NOSOL IBM	MSSOL	MySQL	A	
19	Cost factor in Hadoop cluster setup.	inexpensive	only i7 machine	graphics card	cloud required	A	
20	MongoDB database has been used by number of	backend	proprietary	GUI design	front end	A	
			proposition.				
0.110	0.1179771011/4		OPTIO	ONS	l .	Correct	
Q NO	QUESTION (2 marks per question)	A	В	С	D	Answer	
1	node acts as the Slave and is responsible	MapReduce	Mapper	TaskTracker	JobTracker	С	
2	Which function is responsible for consolidating the	Reduce	Мар	Reducer	Mapper	a	
3	Which function maps input key/value pairs to a set	Mapper	Reducer	Combiner	Execute	a	
4	is the slave/worker node and holds the user	Data block	NameNode	DataNode	Replication	С	
5	Interface reduces a set of	Mapper	Reducer	Writable	Readable	b	
6	The MapReduce algorithm contains two important	mapped, reduce	mapping,	Map,	Map, Reduce	d	
7	Which of the following is used to schedules jobs	SlaveNode	MasterNode	JobTracker	Task Tracker	С	
8	HDFS works in a fashion.	worker-master fashion	master-slave fashion	master-worker fashion		b	
9	The default block size in hadoop is	16MB	32MB	64MB	128MB	С	

10	HDFS is implemented in	С	Perl	Python	Java	,
11	language. Which of the following is a wide-column store?	Cassandra	Riak	MongoDB	Redis	d
12	Most NoSQL databases support automatic meaning that you get high availability		scalability	replication	reducing	c a
13	and disaster recovery. mapper and reducer classes extends classes from the package	org.apache.hadd op.mapreduce	apache.hadoop	org.mapreduce	hadoop.mapred	a
14	What license is Apache Hadoop distributed under?	Apache License 2.0	Shareware	Mozilla Public License	Commercial	a
15	A resource used for sharing data globally by all nodes is	Distributed Cache	Centralised Cache	secondry memory	primary memory	a
16	is the master that which manages the jobs and res ources in a cluster	heart beat	Job tracker	Task Tracker	Job history server	b
17	The MapReduce algorithm contains two important tasks, namely	mapped, reduce	mapping, Reduction	Map, Reduction	Map, Reduce	d
18	can best be described as a programming model used to develop Hadoop-based applications that can process massive amounts of data.	MapReduce	Mahout	Oozie	Hbase	a
Q NO	QUESTION (2 marks per question)		OPTIC			Correct
Z 110		A	В	С	D	Answer
1	In Flajolet-Martin algorithm if the stream contains n elements with m of them unique, this algorithm runs in	O(n) time	constant time	O(2n) time	O(3n)time	a
2	which algorithm we will implement to know how many distinct users visited the website till now or in last 2 hours.	DGIM	SVM	FM	Clustering	С
3	In FM algorithm we shall use estimatefor the number of distinct elements seen in the stream.	2 to the power R	3 to the power R	2R	3R	a
4	In sliding window of size w an element arriving at time t expires at	w	t	t+w	t-w	c
5	Real-time data stream is		sequence of data items that arrive in some order and may be seen twice.	sequence of data items that arrive in same order	sequence of data items that arrive in different order	a
6	Which of the following statements about data streaming is true?	Stream data is always unstructured data.		Stream data often has a high velocity.	Stream elements cannot be stored on disk.	В
7	Which of the following statements about standard Bloom filters is correct?	It is possible to delete an element from a Bloom filter.	A Bloom filter always returns the correct result.	It is possible to alter the hash functions of a full Bloom filter to create more space.	A Bloom filter always returns TRUE when testing for a previously added element.	d
8	What are DGIM's maximum error boundaries?	DGIM always underestimates the true count; at most by 25%	DGIM either underestimates or overestimates the true count; at most by 50%	DGIM always overestimates the count; at most by 50%	DGIM either underestimates or overestimates the true count; at most by 25%	

9	Which of the following statements about the standard DGIM algorithm are false?	DGIM operates on a time-based window.	DGIM reduces memory consumption through a clever way of storing counts.	In DGIM, the size of a bucket is always a power of two.	The maximum number of buckets has to be chosen beforehand.	d
10	In DGIM,whenever forming a bucket then	Every bucket should have at least one 1, else no bucket can be formed	Every bucket should have at least two 1, else no bucket can be formed	Every bucket should have at least three 1, else no bucket can be formed	Every bucket should have at least four 1, else no bucket can be formed	A
11	Which attribute is not indicative for data streaming?	Limited amount of memory	Limited amount of processing time	Limited amount of input data	Limited amount of processing power	С
12	In Filtering Streams	Accept those tuples in the stream that meet a criterion.	Accept data in the stream that meet a criterion.	Accept those class in the stream that meet a criterion.	Accept rows in the stream that meet a criterion.	a
13	A Bloom filter consists of	An array of n bits, initially all 0's.	An array of 1 bits, initially all 0's.	An array of 2 bits, initially all 0's.	An array of n bits, initially all 1's.	a
14	The purpose of the Bloom filter is to allow	through all stream elements whose keys are in Set	through all stream elements whose keys are in class	through all data elements whose keys are in Set	through all touple elements whose keys are in Set	a
Q NO	QUESTION (2 marks per question)		OPTIC			Correct
Q I I O	The phenomenon that occurs because of feature	A	В	C	D	Answer
1	changes or changes in behaviour of the data itself is	Concept Drift	Streaming	Sampling	Batch Processing	A
	known as				Ü	
2	Identify the heirarchical clustering type which calculates the average distance between clusters	Average Link Clustering	Centroid Link Clustering	Single Link Clustering	Complete Link Clustering	A
3	Identify the heirarchical clustering type which calculates the average distance between clusters before merging. Which of the following stream clustering algorithm can be used for counting 1's in a stream			0	Complete Link	A C
	Identify the heirarchical clustering type which calculates the average distance between clusters before merging. Which of the following stream clustering algorithm can be used for counting 1's in a stream Which term indicated the degree of corelation in dataset between X and Y, if the given association rule	Clustering FM Algorithm	Clustering	Clustering BDMO	Complete Link Clustering	
3	Identify the heirarchical clustering type which calculates the average distance between clusters before merging. Which of the following stream clustering algorithm can be used for counting 1's in a stream Which term indicated the degree of corelation in dataset between X and Y, if the given association rule given is X>Y Which technique is used to filter unnecessary itemset in PCY algorithm	Clustering FM Algorithm	Clustering PCY Algorithm	Clustering BDMO Algorithm	Complete Link Clustering SON Algorithm	С
3	Identify the heirarchical clustering type which calculates the average distance between clusters before merging. Which of the following stream clustering algorithm can be used for counting 1's in a stream Which term indicated the degree of corelation in dataset between X and Y, if the given association rule given is X>Y Which technique is used to filter unnecessary itemset	Clustering FM Algorithm Confidence	Clustering PCY Algorithm Monotonicity Hashing	Clustering BDMO Algorithm Distinct	Complete Link Clustering SON Algorithm Hashing	C A
3 4 5	Identify the heirarchical clustering type which calculates the average distance between clusters before merging. Which of the following stream clustering algorithm can be used for counting 1's in a stream Which term indicated the degree of corelation in dataset between X and Y, if the given association rule given is X>Y Which technique is used to filter unnecessary itemset in PCY algorithm In association rule, which of the following indicates the measure of how frequently the items occur in a dataset? Identify the property of frequent itemsets which is defined as follows ' If a set of items in a dataset is frequent, then so are all its subsets'	Clustering FM Algorithm Confidence Association Rule	Clustering PCY Algorithm Monotonicity Hashing Technique	Clustering BDMO Algorithm Distinct Data Mining	Complete Link Clustering SON Algorithm Hashing Market basket	C A B
3 4 5 6	Identify the heirarchical clustering type which calculates the average distance between clusters before merging. Which of the following stream clustering algorithm can be used for counting 1's in a stream Which term indicated the degree of corelation in dataset between X and Y, if the given association rule given is X>Y Which technique is used to filter unnecessary itemset in PCY algorithm In association rule, which of the following indicates the measure of how frequently the items occur in a dataset? Identify the property of frequent itemsets which is defined as follows ' If a set of items in a dataset is frequent, then so are all its subsets' Identify the algorithm in which, on the first pass we count the item themselves and then determine which items are frequent. On the second pass we count only the pairs of item both of which are found frequent on	Clustering FM Algorithm Confidence Association Rule Support Support	Clustering PCY Algorithm Monotonicity Hashing Technique Confidence	Clustering BDMO Algorithm Distinct Data Mining Basket	Complete Link Clustering SON Algorithm Hashing Market basket Itemset	C A B
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3 4 5 6 7	Identify the heirarchical clustering type which calculates the average distance between clusters before merging. Which of the following stream clustering algorithm can be used for counting 1's in a stream Which term indicated the degree of corelation in dataset between X and Y, if the given association rule given is X>Y Which technique is used to filter unnecessary itemset in PCY algorithm In association rule, which of the following indicates the measure of how frequently the items occur in a dataset? Identify the property of frequent itemsets which is defined as follows ' If a set of items in a dataset is frequent, then so are all its subsets' Identify the algorithm in which, on the first pass we count the item themselves and then determine which items are frequent. On the second pass we count only the pairs of item both of which are found frequent on first pass	Clustering FM Algorithm Confidence Association Rule Support Support DGIM	Clustering PCY Algorithm Monotonicity Hashing Technique Confidence Confidence	Clustering BDMO Algorithm Distinct Data Mining Basket Monotonicity Pagerank	Complete Link Clustering SON Algorithm Hashing Market basket Itemset Distinct Apriori	C A B C C

12	A version of k-means algorithm used to cluster data that is too large to fit in main memory is	BFR Algorithm	FM Algorithm	PCY Algorithm	SON Algorithm	A
13	Which of the following Hierarchichal approach begins with each observation in a distinct (singleton) cluster, and successively merges clusters together until a stopping criterion is satisfied.	Divisive	Agglomerative	Single Link	Complete Link	В
14	Identify the large scale clustering algorithm which uses a combination of partition based and hierarchical algorithms	FM Algorithm	PCY Algorithm	SON Algorithm	CURE Algorithm	D
15	Which of the classification algorithm uses a hyperplane which separates the data into classes.	SVM Classifier	PCY Algorithm	K-Nearest neighbour	BFR Algorithm	A
16	Which of the algorithm maps the input data to a specific category	Classifier	Multi Label Classification	Multi Class Classification	Feature	A
17	A classification model that uses a treelike structure to represent multiple decision paths is	PCY Algorithm	SVM Classifier	Decision tree	K-Nearest neighbour	С
18	The distance between two mean points of a cluster is known as	Density	Average	Centroid	Divisive	С
19	An individual measurable property of a phenomenon used in classification algorithm that is being observed is known as	Multi Label Classification	Multi Class Classification	Binary Classification	Feature	D
20	classification of a sample is dependent on the target values of the neighboring points falls under which of the following classification algorithm type	Multi Label Classification	K-Nearest neighbour	PCY Algorithm	SVM Classifier	В
Q NO	QUESTION (2 marks per question)		OPTIO		_	Correct
Q 110		A	В	C Hubs &	D Authorities &	Answer
1	In a web graph is consider as nodes and edges connecting nodes are to the pages	Web page & links	links & Web page	Authorities	Hubs	Α
2	Page Rank Helps in measuringof a web page within a set of similar entities.	Interconnections	relative importance	Incomming Links	Outgoging Links	В
3	In page Rank computation in a web a Dead Ends are the pages with no in the web graph.	Trust Rank	In links	out links	Hub Score	С
4	In Structure of web some pages that reach from in- components to the out-componets withtout linking it to any pages in SCC(Strongly connected Componets), are called as	Dead Ends	Hubs	Spider Traps	Tubes	D
5	are theset of pages whose outlinks reach to the pages only from that set	Dead Ends	Hubs	Spider Traps	Tubes	С
6	One lagre portion of web which is more or less strongly connected Componet also called as	Tubes	Core	Tendrils	InComponets	В
7	Technique used to attempts to measure what fraction of PageRank value could be due to spam is called as	Spam Mass	Trust Rank	Page Rank	Hub Score	A
8	In PageRank computation highest eigen value of a Markov matrix is	0	1	-1	2	В
9	Which statement is true about Page Rank	PageRank is Query Dependent	PageRank is Query Independent , works on lagre portion of web	PageRank is Query Dependent, works on small portion of web	PageRank works on small portion of web	С
10	Which Statement is true about HITS algorithm	HITS work on entire Web graph	HITS work on small subgraph from the web garph	HITS assign pageRank to webpages	It use idea of random surfer	В
11	Which of the following factors have an impact on the Google PageRank?	The total number of inbound links to a page of a web site	The subject matter of the site providing the inbound link to a page of a web site	The text used to describe the inbound link to a page of a web site	The number of outbound links on the page that contains the inbound link to a page of a web site	A

12	An alogrithm which visits each node X once and computes the number of shortest paths from X to each of the other nodes that go through each of the edges is:	DGIM Algorithm	Girvan-Newman Algorithm	Page Rank Algorithm	FM Algorithm	В
13	allows us to discover groups of interacting objects and relationship between them	Node	Community	Map reduce	Combiners	В
14	The process of identifying similar users and recommending what similar users like is called	collaborative filtering	Content-Based systems	Page rank	stream filtering	A
15	The concept which explains the advantage of on-line vendors over conventional, brick-and mortar vendors is called	Short tail	Tailing	Long-tail	ZeroTail	С
16	For an edge e in a graph, edge betweeness of e is defined as the number ofpath between all nodes paira(Vi,Vj)in the graph such that the shortest path between Vi and Vj passes through e	shortest	farthest	equal	zero length	A
17	Girwan and Newman proposed a hierachical divisive clustering technique for social graphs that use the:	Edge Betweeness as a distance measure	Centrality as a distance measure	Jaccard distance as a distance measure	Euclidean distance as a distance measure	A
18	A measure that says "two objects are considered to be similar if they are refrenced by similar objects" is:	Page Rank	Trust Rank	Graph Rank	Sim Rank	D
19	A and B have an intersection of size 1 and a union of size 5. then their Jaccard distance is	5	43835	43926	1	С
20	We can enumerate or count the triangles in a graph with m edges in	O(m to the power 3/2)time	O(m cube)time	O(m)time	O(m square)time	A
21	finding maximal cliques is a	not a NP- complete problem	NP-complete problem	easy task	moderate problem	В
22	The number of triangles per node in a social network graph is an important measure of the of a community	page rank	authority	TrustRank	closeness	D