27. a.i.	Deduce the syntax for count (), arg(), sum () in SQL and mention its purpose.	6	2	2	2
ii.	Deduce the use of head (), tail (), info (), describe () in python.	4	2	2	2
	(OR)		_ 10		
b.	Articulate the various data types involved in python language with code snippets.	10	2	2	2
28. a.i.	Sketch the HDFS architecture.	5	2	3	1
ii.	Deduce the difference between Hadoop 1.X and Hadoop 2.X.	5	2	3	1
	(OR)	,			
b.	Sketch the architecture of apache hive and articulate the working.	10	2	3	1
29. a.	Illustrate the job run process in map reduce section of Hadoop data analytics.	10	2	4	1
	(OR)				
b.	Deduce the difference between YARN and map reduce processes in Hadoop.	10	2	4	1
30. a.i.	Estimate the challenges involved in security analytics.	5	2	5	1
ii.	Deduce the challenges involved in intrusion of bigdata.	5	2	5	1
1	(OR)	10	2	5	1
b.	Articulate in detail the techniques of data analysis.	10	-	,	1

* * * *

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Reg. No.			-	4	-15-				
8						 			

B.Tech. DEGREE EXAMINATION, NOVEMBER 2022

Sixth and Seventh Semester

18EEE425T - FUNDAMENTALS OF BIG DATA ANALYTICS

Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed

(For the candidates admitted from the academic year 2018-2019 to 2019-2020)

Note:

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(i)

(ii)	over to hall invigilator at the end of 40 th 1 Part - B should be answered in answer b						
Time: 2	½ Hours			Ma	ax. N	/Iark	s:
	$PART - A (25 \times 1 =$			Marks	BL	co	PO
1	Answer ALL Qu Define the data that does not conform			1	1	1	1
1.			Unstructured				
	· /	• •	Semi-structured				
2.	Find the range of {10,20,120,40,440}	}		1	1	1	2
		•	430				
		` /	330				
2	Outline the use of his data analytics			1	1	1	1
3.	Outline the use of big data analytics (A) Spread data	(B)	Analyse data				
	\ / I	, ,	Collect data				
	(C) Organizo data						
4.	Find the total V's of big data			1	1	1	1
	_	(B)	4				
		(D)	6				
5	Identify the measure of dispersion that	at is	least affected by extreme values	1	1	1	1
<i>J</i> .	(A) Range	(B)	Mean deviation				
	()		Quartile deviation				
6.	Display the output of the code			, 1	2	2	2
	Delete from students						
	Where age =16;		<u> </u>			,	
	Roll back;	(D)	Deletes the entire table				
	(A) Performs an undo operation on the delete operation	(D)	Defetes the entire table				
	*	(D)	Deletes the complete details				
7	Find the operation of the SQL statem	nent		1	2	2	2
: /·	DROP TABLE student;	ioiii					
	(A) Deletes a table called student	(B)	Creates a table called student				
	(C) Regenerates the table called						
	student	, ,					

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8.	Cho	ose the correct extension of pyth	ion fi	le	1	2	2	1
	(A)	.python	(B)	.pl				
	(C)	.p	(D)	.py				
9.	Exa	mine the way numbers in 'R' are			1	2	2	1
	(A)			Double precision real numbers				
	(C)	Real precision real numbers	(D)	Imaginary precision real numbers				
10.	Ded 4+5	uce the value of the expression ((pytho	on):	1	2	2	2
	(A)		(B)	8				
	(C)		(D)					
	,		()			-		
11.	Ded	uce the incorrect big data techno	ology		1	2	3	1
	(A)	Apache kafka	(B)	Apache pytorch				
	(C)	Apache Hadoop	(D)	Apache spark			3	
12.	Dete	ermine the number of nodes in a	pache	PIG	1=	2	3	1
	(A)	2	(B)	3				
	(C)	4	(D)	5				
13.	Dete disk		f data	that can be read or written on	1	2	3	1
	(A)	Byte size	(B)	Block size				
	(C)	Heap	(D)	Hill				
14.	Ded	uce the check point node in HD	FS		1	2	3	1
		Secondary name node	(B)	Secondary data node				
	(C)	Name node	(D)	Data node				
15	Dete	ermine the class that does the job	o conf	rol in Hadoon	1	2	3	1
		Task class		Mapper class				
	(C)			Reducer class				
16.	Artic map			determines the number of	1	2	4	1
	(A)	Inputs	(B)	Outputs				
	(C)	Attributes	(D)	Tasks				
17.	Ded	uce the fixed-size pieces of map	redu	ce jobs	1	2	4	1
٠	(A)	Splits	(B)	Tasks				
	(C)	Maps	(D)	Records				
18.	Dete		rs to	a set of intermediate key/values	1	2	4	1
	-	Mapper	(B)	Reducer				
	(C)	Mapper and reducer	(D)	Tasker				

	19.	Identify the part of map reduce that is responsible for processing one or more chunks of data for producing output	- 1	2	4	1
		(A) Map task (B) Mapper				
	.55	(C) Task evaluation (D) Map ()				
	20.	Examine the node that is responsible for executing a task and act as slave	1	2	4	1
		(A) Map reduce (B) Mapper				
		(C) Task tracker (D) Job tracker				
	21.	Articulate the way to intrude data	1	2	5	1
		(A) Fall condition (B) Rise condition				
		(C) Sweep condition (D) Race condition				
	22.	Deduce which is not the major component of intrusion detection	1	2	5	1
		(A) Analysis engine (B) Event provider				
		(C) Alert database (D) Buffer execution				
	23.	Deduce the characteristics of stack based intrusion detection	1	2	5	1
		(A) They are integrated closely (B) The host operating system logs				
		with the TCP/IP stack and in the audit information watch packets				
		(C) It is programmed to interpret (D) It uses the normal network				
		a certain series of packets				
	24.	Identify which is not the strength of host based intrusion detection	1	2	5	1
		(A) Attack verification (B) System specific activity				
		(C) No additional hardware (D) Noise inclusion				
	25.	Determine the way that does not classify intrusion detection	1	2	5	1
		(A) Anamoly detection (B) Stack based				
		(C) Signature based (D) Segment based	-12			
		$PART - B (5 \times 10 = 50 Marks)$	Marks	BL	CO	PO
		Answer ALL Questions				
26.	. a.i.	Find the range of the following frequency distribution of marks scored by	2	1	1	1
		class 10 students.				
		Marks interval No of students				
		10-20 8				
		20-30 25 30-40 9				
		30-40 9				
	ii.	Find the standard deviation for the following data	5	1	1	1
		$Data = \{1, 3, 6, 7, 12\}$				
	iii.	Comment on the characteristics of big data.	3	1	1	1
		(OR)				
	h	Outline the data analytics process in detail.	10	1	1	1
	٠.	The same state of the same of				

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