

School: School of Engineering and Technology

Program/s: BTech(IT)
Year: 4th Semester: 7th

Examination: End Semester Examination

Examination year: December - 2021

Course Code: IT411 Course Name: Data Analysis on Cloud Platform

 Date:
 \$16/12/2021
 Total Marks:
 40

 Time:
 11:30 am to 01:30 pm
 Total Pages:
 02

Instructions:

- → Write each answer on a new page.
- → Use of a simple calculator is permitted.
- → Draw all relevant waveforms in answer sheet only.
- → * COs=Course Outcome mapping. # BTL=Bloom's Taxonomy Level mapping

Q. No.	Details	Marks	COs*	BTL#	
Q.1	Select the right option(Write right answer in answer-sheet only)	[05]			
a)	is a component on top of Spark Core. A: Spark Streaming	[01]			
	B: Spark SQL C: RDDs D: All of the mentioned		CO2	BT1	
b)	leverages Spark Core fast scheduling capability to perform streaming analytics.	[01]			
	A: MLlib B: Spark Streaming C: GraphX D: RDDs		CO2	BT1	
c)	Given a dataframe df, select the code that returns its number of rows: A: df.take('all')	[01]	c .		
	B: df.collect() C: df.count() D: df.numRows()		CO3	BT1	
d)	Which of the following language is not supported by Spark? A: Java	[01]			
	B : Pascal C : Scala D : Python		C03	BT1	
e)	Spark is packaged with higher level libraries, including support forqueries.	[01]			
	A: SQL B: C C: C++		C03	BT1	
	D: None of the mentioned				

Q.2	Do as directed	F0.01		
a	What do you mean by Data Mining and Cloud Computing? Briefly describe atleast 5 differences between Amazon AWS, Google Cloud, and Microsoft	[80]	CO1	BT1
	Azure?	[05]	CO2	BT1
b	What are the steps to create an account for Google Cloud Platform (GCP)?	[05]	CO3	BT3
C	What is PySpark? Is Spark quicker than MapReduce?	[05]		BT2
C	What is a partition in ApacheSpark? Tell us how will you implement SQL in	[os]	CO3	
	Spark? Can you use Spark to access and analyze data stored in Cassandra	[07]	CO4	втз
,	detabases? How can you minimize data transfers when working with Spark?			BT3
4	What are the steps to create GCS bucket and delete a bucket with example?	[05]	CO3	77.75
		[80]		BT2
1	what do you mean by Data Mining and Cloud Computing: Briefly describe atleast 5 differences between Amazon AWS, Google Cloud, and Microsoft Azure?		CO1	
	and or			

************End of Question Paper******