Reg. No.					



## II SEMESTER MTECH END SEMESTER EXAMINATIONS APRIL-MAY 2019 SUBJECT: BIG DATA ANALYTICS (CSE 5233)

Date of Exam: 29-04-2019 09:00 AM – 12:00 PM Max. Marks: 50

## **Instructions to Candidates:**

• Answer ALL questions & missing data may be suitably assumed.

1A 1B 1C	Explain 5V's of BigData With example list different types of NoSQL databases. Write a Map-Reduce program to search a word in files.	3M 2M 5M
2A 2B 2C	Briefly explain the components of YARN What is a mapper? Explain different phases of it. What are the features of data serialization formats? Compare different file formats with respect to these features.	2M 3M 5M
3A 3B 3C	With the help of code snippet explain types of partition in Hive. What is serder? How skew is handled in Hive? Draw the diagram and write the code snippet.	4M 2M 4M
4A 4B 4C	What are the features of PIG? How MapReduce chain is formed in RHadoop?Write the wordcount program using RHIPE. What are the components of web search? Explain any one of the components.	2M 5M 3M

**5A** For the graph shown in the Fig 5A. Apply Dijkstra's algorithm and find the shortest path using 0 as source node. Trace the parallel breadth first search algorithm.

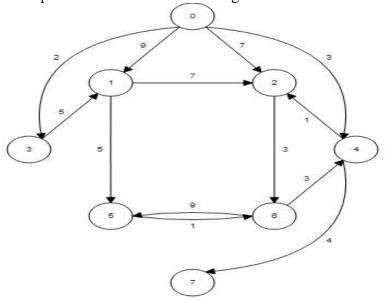


Figure 5A. 5M

Compress the digits from 1 to 10 using unary, Gamma, and Golomb code with b=5 and b=10.

**5B**