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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Third Semester, M.Tech. - Computer Science and Engineering (MCSE)
Semester End Examination; Dec. - 2019
Advanced Concepts in Information Technology

Time: 3 hrs Max. Marks: 100

Note: Answer FIVE full questions, selecting ONE full question from each unit.

	UNIT - I								
1 a.	Define optimal binary search tree. Explain the various steps of optimal binary search tree.								
b.	Explain recursive greedy algorithm and iterative greedy algorithm.								
2 a.	. Explain Huffman algorithm with an example.								
b.	Explain the various elements of Greedy strategy.	10							
	UNIT - II								
3 a.	What is text mining? Explain the stages of document processing in text mining.	10							
b.	What is sentiment analysis? Explain the role of on-line tools used to perform sentiment analysis.	10							
4 a.	. Define mobile analysis. Explain the criteria on which mobile analytics tools are categorized.								
b.	What is opinion mining? Explain opinion mining considering Tweets data as a case study.	10							
	UNIT - III								
5 a.	List out the points to be considered for implementing storage virtualization.	10							
b.	b. Distinguish between symmetric and asymmetric storage virtualization in the network.								
6 a.	Explain storage virtualization on various levels of the storage network.	10							
b.	Write a note on storage virtualization on block level.	10							
	UNIT - IV								
7 a.	Explain blocking and non-blocking message passing operations with a neat diagram.	10							
b.	Explain creating and using Cartesian topologies with examples.	10							
8 a.	Distinguish between overlapping communication and collective communication.	10							
b.	Identify the principles of message-passing programming.	10							
	UNIT - V								
9 a.	Distinguish between data mining and machine learning.	10							
b.	Explain various challenges and issues of machine learning.	10							
10 a.	Identify the areas in real world applications where machine learning is adapted.	10							
b.	Explain any one machine learning algorithm with an example.	10							