Question Paper Code

12639

M.E. - DEGREE EXAMINATIONS, APRIL / MAY 2024

Second Semester

M.E. – Big Data Analytics 20PBDEL201 – HIGH PERFORMANCE COMPUTING

Regulations - 2020

Duration: 3 Hours Max.	Marks: 100						
PART - A $(10 \times 2 = 20 \text{ Marks})$ Answer ALL Questions		Marks K- CO					
1. Define IOE.	2	K1 CO1					
2. Distinguish Cluster and Grid Computing.	2	K2 CO1					
3. Write short notes on Network Functions Virtualization.	2	K1 CO2					
4. Define SAN. List out some advantages of SAN.	2	K1 CO2					
5. Outline the challenges in implementing HPC Architecture.	2	K1 CO3					
6. State Massive Online Analysis.	2	K1 CO3					
7. How does trust impact users' experiences and interactions with products or services?	2	K2 CO4					
8. What is meant by End to End Security?	2	K1 CO4					
9. Write short notes on Support Vector Machine Algorithm.	2	K1 CO5					
10. List out two types of Learners in classification Problem.	2	K1 CO5					
PART - B (5 × 13 = 65 Marks) Answer ALL Questions 11. a) Explain working of the following phases of Map Reduce with one common example (i) Map Phase, (ii) Shuffle and sort phase, and (iii) Reducer Phase.	13	K3 CO1					
OR							
b) Illustrate in detail about grid computing and Cluster computing.	13	K3 CO1					
12. a) Find the different file systems used in cloud environment and Explain in detail about the file systems used GFS and Amazon S3. OR	13	K3 CO2					
b) Generalize the following in detail.(i) Google Bigtable Datastore(ii) Mobile Me.	13	K2 CO2					

13.	a)	You are required to make a case study on STOCK MARKET PREDICTION with following requirements: (i) Briefly introduce about Stock market and its prediction (ii) The Solution Path of the stock Market Perdition. (iii) Do the Empirical Study of the Stock Market Prediction. OR	13	K3 (CO3
	b) i)	Tabulate the short notes on GPFS	6	K2 (CO3
	ii)	Compare and contrast- In Database analytics-In memory analytics.	7	К3	CO3
14.	a)	Explain in detail about the security architecture design of IOT and brief about their challenges and solutions. OR	13	K2 (CO4
	b)	Discuss the following in detail. (i) Security and Privacy (ii) Trust for user.	13	K2 (CO4
15.	a)	Explain in Brief about Clustering applications in machine learning OR	13	K2 (CO5
	b)	Describe in details about Deep learning Accelerators and its workflow.	13	K2 (CO5
		PART - C $(1 \times 15 = 15 \text{ Marks})$			
16.	a)	Compare and contrast in classification algorithms and Big data Genome sequencing. OR	15	K2 (CO6
	b)	Elaborate about Binary Classification and how it is used in various real world applications.	15	K3 (CO6