Total No. of Questions : 8]	30	SEAT No. :
P-715	2	[Total No. of Pages : 2
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B.E. (Computer Engineering) (Data Science) (Honors) ARTIFICIAL INTELLIGENCE FOR BIG DATA ANALYTICS (2019 Pattern) (Semester - VIII) (410503)

Time: 2½ Hours] [Max. Marks:	: 70
Instructions to the condidates:	
1) Answer Q.No.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.	
2) Neat diagrams must be drawn wherever necessary.3) Figures to the right indicate full marks.	
4) Assume suitable data, if necessary.	
Q1) a) Explain fundamental of neural networks in big data.	[6]
b) What is perceptron? Explain Types of Perceptron.	[6]
c) What is feed forward neural netwok explain with example.	[8]
OR	
Q2) a) Explain architecture of artificial neural networks.	[6]
b) Difference between linear and nonlinear neural networks?	[6]
c) Explain recurrent neural networks with example.	[8]
Q3) a) What is Spark? Explain the key features of Spark.	[4]
	[6]
c) Explain map reduce in big data with example.	[8]
OR CONTRACTOR	
Q4) a) Explain the pyspark in big data analytics using hadoop.	[4]
b) Explain Hadoop Ecosystem in detail.	[6]
c) What is HDFS? Explain Hadoop Distributed File System architectur	e.
	[8]

P.T.O.

<i>Q</i> 5)	a)	Explain Scalable Machine Learing on Big Data using Spark.	
	b)	What are the different Features of Hive in Big Data.	
	c)	Write a short note on: Data Warehousing.	[4]
		OR	
Q6)	a)	What are the different key characteristics of a Data Warehouse?	
	b)	What is Hive Big Data and its Benefits?	
	c)	Write a short note on: Data mining.	[4]
Q7)	a) Explain the challenges of natural language processing		
	b)	List and explain the applications of computer vision.	
	c)	Explain NLP application: Sentiment Analysis.	[4]
		Se.	
		OR OR	
Q8)	a)	List and explain the applications of NLP	[6]
	b)	Explain in details feature extraction of NLP.	[6]
	b)	Explain object detection application in Computer Vision.	[4]
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