

May-June 2025
 Program: M. Tech. Scheme: II
 Regular Examination: FY Semester: 2
 Course Code: PCEC202 and Course Name: Big Data Analytics
 Duration: 02.5 Hours Max. Marks: 60
 Date of Exam: 04/06/2025

Instructions:

- (1) All questions are compulsory.
- (2) Draw neat diagrams wherever applicable.
- (3) Assume suitable data, if necessary.

Q. No.	Question	Max. Marks	CO	BT level
Q 1	Solve any two questions out of three: (05 marks each)	10	CO1	AP
a)	Demonstrate what data preprocessing is required in data mining for a weather forecasting system.	10	CO2	U
b)	What are the five Vs of Big Data? Briefly explain each.	10	CO3	U
c)	List and explain any two goals of Hadoop's architecture.	10	CO4	U
Q 2	Solve any two questions out of three: (05 marks each)	10	CO5	U
a)	What are the different phases of a MapReduce job? Explain most powerful phase of MapReduce.	10	CO6	AN
b)	Define re-identification and its impact on big data analytics.	10	CO1	U
c)	Distinguish between static, incremental, and streaming data. Give example.	10	CO2	AP
Q.3	Solve any two questions out of three. (10 marks each)	20		
a)	Explain the process of Knowledge Discovery in Databases (KDD) and its importance.	20		
b)	For the graph given below show the page ranks of all the nodes after running the Page Rank algorithm for two iterations considering the teleportation factor $\beta = 0.8$	20		

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