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FIFTH SEMESTER (CUFYUGP) DEGREE EXAMINATION NOVEMBER 2026

COMPUTER APPLICATION

BCA5EJ307(4) Data Analytics and Visualization

2024 Admission onwards

Maximum Time :2 Hours **Maximum Marks :70**

Section A

All Questions can be answered. Each Question carries 3 marks (Ceiling: 24 Marks)

1	What is analytics? State its importance in data analysis.
2	What is sampling? Why is sampling used in data analysis?
3	What is regression? State its purpose.
4	What is Naive Bayes classification?
5	What is hierarchical clustering?
6	What is Principal Component Analysis (PCA)? State its purpose.
7	What are the major types of Big Data Analytics?
8	Mention any three technologies or tools used in Big Data Analytics.
9	What is Apache Hadoop? State its purpose in Big Data Analytics.
10	What is MongoDB? Mention its role in Big Data Analytics.

Section B

All Questions can be answered. Each Question carries 6 marks (Ceiling: 36 Marks)

11	Explain the basic requirements of an analytical model.
12	Explain the concept of classification and its basic steps.
13	Explain the K-Nearest Neighbour (KNN) algorithm.
14	Explain the basic working of K-means clustering.
15	Explain the Apriori algorithm for association rule mining.
16	Explain the basic working of Big Data Analytics.
17	Explain the role of statistical methods in data visualization.
18	Explain the basic features and uses of Apache Cassandra in Big Data Analytics.

Section C

Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)

19	Explain supervised learning and discuss its major applications with suitable examples.
20	Explain unsupervised learning and discuss its major applications with suitable examples.