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Reg. No.:

Question Paper Code: 10242

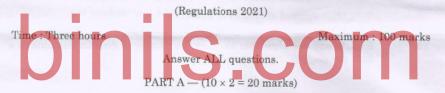
M.E./M.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023.

Second Semester

Big Data Analytics

BD 4251 - BIG DATA MINING AND ANALYTICS

(Common to: M.E. Computer Science and Engineering/M.E. Computer Science and Engineering (with Specialization in Artificial Intelligence and Machine Learning/M.E. Medical Electronics/M.E. Mobile and Pervasive Computing/M.E. Multimedia Technology/M.E. Software Engineering/M.Tech. Information Technology)



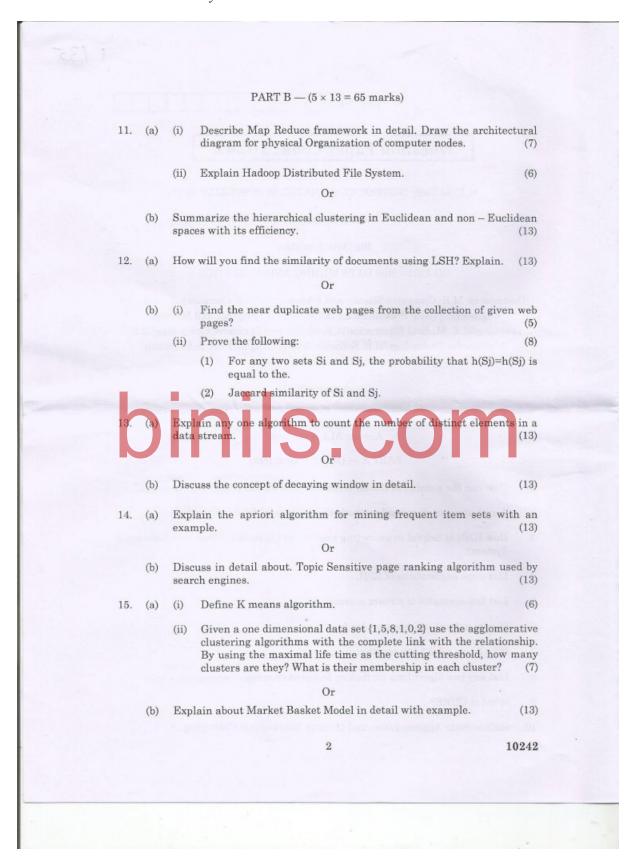
- 1. How can the number of cluster be chosen in K Means clustering algorithm?
- 2. Name any two statistical methods that are useful for data scientist.
- 3. How KNN is helpful in extracting answers in the model of Question Answering System?
- List some applications of LSH.
- List few examples of stream sources.
- 6. How to extract reliable samples from a stream?
- 7. Why do we need topic sensitive page rank?
- 8. List any two algorithms for finding frequent item set.
- 9. What is CURE?
- 10. Differentiate Agglomerative and Divisive Hierarchical Clustering.

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PART C — $(1 \times 15 = 15 \text{ marks})$

16. (a) Use the k-means algorithm and Euclidean distance to cluster the following 8 example into 3 clusters:A1=(2,10), A2=(2,5), A3=(8,4) A4=(5,8) A5=(7,5) A6=(6,4) A7=(1,2), A8=(4,9), Suppose that the initial seeds(centers of each cluster)are A1,A4 and A7.

Run the k-means algorithm for 1 epoch only. At the end of this epoch show.

(i) The new clusters.

(5)

(ii) The centers of the new clusters.

- (6)
- (iii) How many more iterations are needed to coverage? Draw the result for each epoch. (4)

(b) Consider a collection of literature survey made by a researcher in the form of a text document with respect to cloud and big data analytics. Using Hadoop and Map Reduce, write a program to count the occurrence of predominant key words.

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