Mumbai University

May - 2019

B.Sc.IT: SEMESTER – VI (QUESTION PAPER) [CBCS – Choice Based]

BUSINESS INTELLIGENCE

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MAR - 2019 | CBCS - CHOICE BASED

MUMBAI UNIVERSITY B.Sc.IT: SEM-VI CHOICE BASED

Total Marks: 75

NOTE: (1) All questions (Q.1 to Q.5) are compulsory. (2) Figures on the right indicate total marks. All sub-questions carry equal marks. (3) Write the question numbers clearly as mentioned in the Question Paper. (4) Mixing of sub-questions is not allowed. (5) Draw diagrams and give examples whenever necessary. (6) Use of calculator or any other electronic gadget is not allowed. Q.1 ATTEMPT ANY THREE QUESTIONS: (15 MARKS) (A) What is Business Intelligence? Explain Architecture of the Business Intelligence. (5) (B) Explain different phases in development of Business Intelligence System. (5) (C) What is Decision Support System (DSS)? What are the factors that affect the degree of success of a DSS? (5) (D) Explain classification of Decisions according to their Nature and Scope. (5) (E) Define System. Explain Closed Cycle and Open Cycle System with suitable example. (5) Describe the Phases in the Development of a Decision Support Systems (DSS). (F) (5) Q.2 **ATTEMPT ANY THREE QUESTIONS: (15 MARKS)** What are the Phases in the Development of Mathematical Models for Decision Making? (A) (5) (B) Explain the Divisions of Mathematical Models according to their Characteristics, Probabilistic Nature, (5) and Temporal Dimension.

Explain the following Normalization Techniques: (F) (i) Decimal Scaling

(C)

(D)

(E)

Time: 2 ½ Hours

(ii) Min-Max

ATTEMPT ANY THREE QUESTIONS: (15 MARKS) Q.3

- (A) What are the criteria used to evaluate classification methods? (5) Explain Top-Down Induction of Decision Tree. Examine the components of the Top-Down Induction of (5) (B) Decision Trees Procedure. Short note on Naive Bayesian Classifiers. (5) (C)
- Write K-Means Algorithm for Clustering. (D) (5)
- (E) Explain the 'Rosenblatt Perceptron' form of Neural Network with diagram. (5)
- (F) Write a short note on Confusion Matrix. (5)







What is Data Mining? List the Real Life Applications of Data Mining.

Explain Categorical and Numerical Attributes with proper examples.

Differentiate between Supervised and Unsupervised Learning.

















(5)

(5)

(5)

(5)

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Q.4	ATTEMPT ANY THREE QUESTIONS: (15 MARKS)	
(A)	Write a short note on Market Basket Analysis.	(5)
(B)	What is use of Web Mining Methods? What are the different purposes of Web Mining?	(5)
(C)	Explain "Tactical Planning" Optimization Model for Logistics Planning.	(5)
(D)	Explain the CCR Model.	(5)
(E)	Write short note on Efficient Frontier.	(5)
(F)	What is Relational Marketing? What are the Data Mining in the Field of Relational Marketing?	(5)
Q.5	ATTEMPT ANY THREE QUESTIONS: (15 MARKS)	
Q.5 (A)	ATTEMPT ANY THREE QUESTIONS: (15 MARKS) Define Knowledge Management. What are Data, Information and Knowledge?	(5)
	· · · · · · · · · · · · · · · · · · ·	(5) (5)
(A)	Define Knowledge Management. What are Data, Information and Knowledge?	
(A) (B)	Define Knowledge Management. What are Data, Information and Knowledge? Describe the Knowledge Management System (KMS) Cycle.	(5)
(A) (B)	Define Knowledge Management. What are Data, Information and Knowledge? Describe the Knowledge Management System (KMS) Cycle. Describe how AI and Intelligent Agents support Knowledge Management. Relate XML to Knowledge	(5)
(A) (B) (C)	Define Knowledge Management. What are Data, Information and Knowledge? Describe the Knowledge Management System (KMS) Cycle. Describe how AI and Intelligent Agents support Knowledge Management. Relate XML to Knowledge Management and Knowledge Portals.	(5) (5)





















