

Model Question Paper-1 with effect from 2021(CBCS Scheme)

USN

--	--	--	--	--	--	--	--	--	--

**Seventh Semester B. Tech Degree Examination
Business Intelligence and Data Analytics**

TIME: 03 Hours

Max.Marks:100

Note: Answer any FIVE full questions, choosing at least ONE question from each MODULE

Module-1			*Bloom's Taxonomy Level	COs	Marks
Q.01	a	List the components of and explain the Business Pressures-Responses-Support Model.	L1	1	10
	b	What are the nine cells of the decision framework? Explain what each is for.	L2	1	10
OR					
Q.02	a	Describe the three major managerial roles, and list some of the specific activities in each.	L2	1	10
	b	List some capabilities of information systems that can facilitate managerial decision making.	L2	1	10
Module-2					
Q.03	a	List and briefly describe Simon's four phases of decision making.	L2	2	10
	b	List the key characteristics and capabilities of DSS.	L2	2	10
OR					
Q.04	a	Explain the difference between a principle of choice and the actual choice phase of decision making.	L2	2	10
	b	List the DSS classifications of the AIS SIGDSS.	L1	2	10
Module-3					
Q.05	a	Describe the major components of a data warehouse.	L2	3	10
	b	Describe the three steps of the ETL process.	L2	3	10
OR					
Q.06	a	What issues should be considered when deciding which architecture to use in developing a data warehouse? List the 10 most important factors.	L2	3	10
	b	Explain the importance of metadata.	L2	3	10
Module-4					
Q.07	a	Explain Kruskal-Wallis Test.	L2	4	10
	b	Explain the Parametric Techniques for Comparing Means.	L1	4	10
OR					
Q.08	a	What are the different utilities provided by the ndimage sub-package for image processing.	L2	4	10
	b	Is it possible to view the time series for selected time period? If yes. How?	L2	4	10

Module-5					
Q.09	a	How is a ROC curve drawn if the classifier is not a binary classifier.	L2	5	10
	b	Discuss the importance of the attributes displayed in the result of the classification report.	L2	5	10
OR					
Q.10	a	Create Gradient Boosting and Random Forest model for the dataset discussed in bagging algorithm for regression problem.	L2	5	10
	b	Why and how do we hyperparameter tuning in python.	L1	5	10

*Bloom's Taxonomy Level: Indicate as L1, L2, L3, L4, etc. It is also desirable to indicate the Cos and Pos to be attained by every bit of questions.

Model Question Paper-2 with effect from 2021(CBCS Scheme)

USN

--	--	--	--	--	--	--	--	--	--

**Seventh Semester B. Tech Degree Examination
Business Intelligence and Data Analytics**

TIME: 03 Hours**Max.Marks:100**

Note: Answer any FIVE full questions, choosing at least ONE question from each MODULE

Module-1			*Bloom's Taxonomy Level	COs	Marks
Q.01	a	What are some of the major factors in today's business environment.	L1	1	10
	b	Describe the four steps managers take in making a decision.	L2	1	10
OR					
Q.02	a	List some capabilities of information systems that can facilitate managerial decision making.	L2	1	10
	b	List and describe the major components of BI.	L2	1	10
Module-2					
Q.03	a	What are the characteristics of decision making.	L2	2	10
	b	List the key characteristics and capabilities of DSS.	L2	2	10
OR					
Q.04	a	Define decision style and describe why it is important to consider in the decision making process and explain.	L2	2	10
	b	How can sensitivity analysis help in the choice phase? Explain.	L1	2	10
Module-3					
Q.05	a	What are the characteristics of data warehousing.	L2	3	10
	b	What are the key similarities and differences between a two-tiered architecture and a three-tiered architecture?	L2	3	10
OR					
Q.06	a	Describe the major components of a data warehouse.	L2	3	10
	b	Which data warehousing architecture is the best? Why.	L2	3	10
Module-4					
Q.07	a	Discuss the different assumptions that need to be fulfilled before applying independent sample t-test.	L2	4	10
	b	What are the utility of ARIMA models.	L1	4	10
OR					
Q.08	a	Discuss the different ways to determine normality of a sample.	L2	4	10
	b	What are the purpose of using seasonal decomposition on time series data.	L2	4	10

Module-5					
Q.09	a	Compare the ensemble techniques with the k-NN, logic regression, and decision tree algorithm with respect to explanation of output, prediction power, and time required in calculation.	L2	5	10
	b	Differentiate between bagging and boosting.	L2	5	10
OR					
Q.10	a	Discuss the process of Gradient Boosting algorithm in detail.	L2	5	10
	b	Differentiate between random forest and extra tree.	L1	5	10

*Bloom's Taxonomy Level: Indicate as L1, L2, L3, L4, etc. It is also desirable to indicate the Cos and Pos to be attained by every bit of questions.