04/12/2017 Q. P. Code: 27135

(3 Hours)

Max. Marks: 80

N.B.:	(1)	Question	No.	1	is	compulsory.	
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TF and TFIDF

- (2) Attempt any Three questions out of remaining Five questions.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.

Qu-1		Attomat the fellowing	
Qu-1		Attempt the following.	20
	a)	Explain Simple Linear Regression.	
	b)	Exploratory Data Analysis (EDA)? How Does Exploratory Data Analysis Differ from Summary Analysis?	20 20
	c)	Explain Data Visualization basics.	
	d)	Explain Model-Based Clustering in short.	
Qu-2	a)	Explain data science process in detail with the help of diagram.	10
	b)	One of the great strengths of R is the user's ability to add functions. In fact, many of the functions in R are actually functions of functions. Give the Syntax for writing Functions in R and write a User Defined Functions (UDF) to compute the Factorial of given number.	10
Qu-3	a)	Give a detailed description of K-Nearest Neighbor (KNN) Algorithm and state clearly i) When do we use KNN algorithm? ii) How do we choose the factor K?	10
	b)	Explain Text analysis steps with a suitable text analysis example.	10
Qu-4	a)	Explain Logistic Regression in detail.	10
	(b)	Explain sentiment analysis with suitable example.	10
Qu-5	a)	Explain the Global Innovation Network and Analysis Case Study with following: i) Business Problem Framed ii) Initial Hypotheses iii) Data iv) Model Planning Analytic Technique v) Result and Key Findings	20
Qu-6		Write short note on	20
	a)	Data science vs Bl	
	b)	Support vector machine	
	c).	Interactive dashboards	
