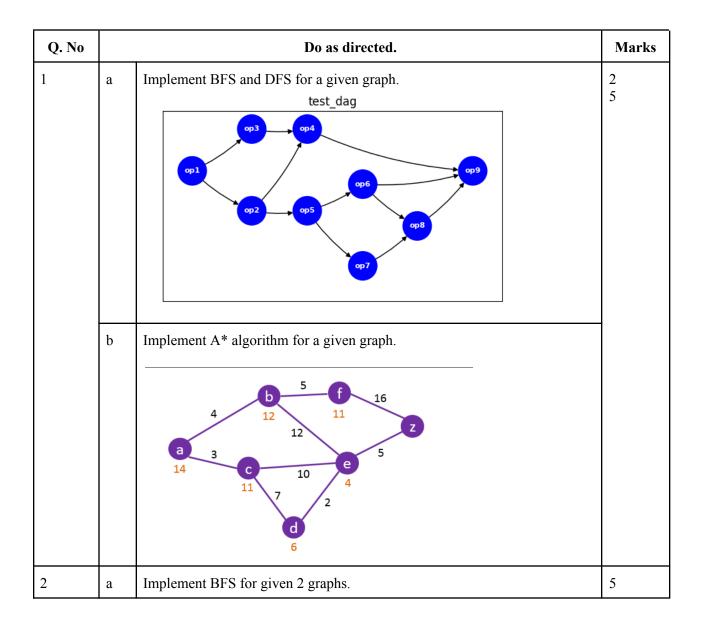
## RK UNIVERSITY SCHOOL OF ENGINEERING SEE (April-2024)

Program: B. Tech.Semester: VIDate : 13/04/2024Reporting time: 8:00AMDuration: 90 MinsTotal Marks: 50Subject :CE628 Artificial Intelligence and Machine Learning



Dataset download link: 🗅 SET-1

		2 $3$ $3$ $10$ $3$ $10$ $1$ $3$ $10$ $1$ $4$ $7$ $13$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$	
	Ъ	Find path using A* algorithm. A $6$ $E$ $4$ $F$ $3$ $G$ $0$ 17 $S$ $B$ $7$ $D$ $6$ $F$ $3$ $G$ $010$ $C$ $6$ $D$ $6$ $C$ $13$ $G$ $0$	
3	a	Create a numpy 1D array with 10 elements of random values between 5 to 10.	1
	b	Create a numpy 2D array with size 3 by 3. Element values are random numbers. Print 2D array.	2
	c	Find minimum value and mean value from above 1D array (Que. 3a)	2
4	a	Read iris.csv dataset.	1
	b	Fetch first 5 and last 5 rows dataset.	2
	c	Extract data having spices as "virginica" with "Petal_Length" more than 6.	2
5	a	Read dataset "Clean_Dataset".	1
	b	Find categories of 'source_city'	2
	c	Draw Count plot for 'source_city'.	2
6	a	Read iris.csv file and give the name of categorical columns.	1

	b	Apply label encoding using scikit-learn library.	2
	c	Find different classes of encoded columns.	2
7	a	Read dataset "spambase.csv"	1
	b	Split the data into a train and test set with suitable size.	2
	c	Implement Bagging using Random Forest Algorithm.	2
8	a	Read the "mobile.csv" dataset.	1
	b	Draw scatter plot of purchased and not_purchased value with respect to Age and EstimatedSalary.	2
	c	Do Feature engineering (normalize the Age and EstimatedSalary columns)	2
9	a	Read "chd_data.csv" dataset.	1
	b	Specifying the columns as predictor and target variable and Split the data in training and test set in 70:30 ratio.	2
	c	Built model using appropriate ML algorithm.	2
10	a	Train the model using the training data. (with reference of que. 9)	1
	b	Fetch the intercept and the coefficients of the model. List different cost matrices can be used for a given data set.	2
	с	Evaluate the model's performance on training and test data. Model is well fitted or an overfitting model?	2

\*\*\*\*\*\*ALL THE BEST\*\*\*\*\*\*\*