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Total Number of Pages : 01

B.Tech  
PCS4D001

4<sup>th</sup> Semester Regular/Back Examination 2018-19

DATA ANALYTICS

BRANCH : CSE

Max Marks : 100

Time : 3 Hours

Q.CODE : F954

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part- I

Q1 Only Short Answer Type Questions (Answer All-10) (2 x 10)

- Mention some common problems that data analysts encounter during analysis.
- How will you create a classification to identify key customer trends in unstructured data?
- What is the criteria to say whether a developed data model is good or not?
- Define multilayer classifier.
- Define the Bayes classifier.
- What's the difference between a generative and discriminative model?
- In which problem the logistic regression is used?
- What is BigData Analysis?
- Compare between probability and likelihood
- What is data cleansing?

Part- II

Q2 Only Focused-Short Answer Type Questions (Answer Any Eight out of Twelve) (6 x 8)

- Explain the typical data analysis process.
- Discuss the issues and challenges of KNN model.
- Discuss details on cross validation method
- Why subset selection method is essential. Discuss the best selection method with its demerits.
- Discuss the main features of data analytics method in details.
- Compare between bootstraps and cross validation with proper examples.
- How ANN learning in data analysis provide better result.
- What cross-validation technique would you use on a time series dataset? Justify your answer with example.
- How would you handle an imbalanced dataset?
- What is the role of kernel machine?
- What is use of forward propagation in neural network?
- How would you evaluate a logistic regression model?

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

- Q3 What is SVM? Mention the role of SVM. Explain the linear classifier related to SVM (16)
- Q4 Differentiate between supervised and unsupervised learning in details with proper examples. (16)
- Q5 Discussed the different components of Artificial Neural Networks with examples. (16)
- Q6 a) How best use of least-squared error hypotheses? (8)  
b) Discuss the Decision tree representation in data analysis. (8)