

CBCS SCHEME

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BANGALORE - 560 037

15CS662

Sixth Semester B.E. Degree Examination, June/July 2018 Big Data Analytics

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing one full question from each module.

Module-1

- 1 a. Explain the seven step modeling process in detail. (08 Marks)
b. Explain the software used to analyze a wide variety of business problems. (08 Marks)

OR

- 2 a. What are the types of data? Explain with examples. (04 Marks)
b. Explain the steps involved in using stat tools with features. (04 Marks)
c. What is pivot table? Explain the features of pivot table. (08 Marks)

Module-2

- 3 a. What are probability and probability distribution? Explain the probability essentials. (10 Marks)
b. Bender company supplies contractors with materials for the construction of houses. The company currently has a contract with one of its customers to fill an order by the end of July. However, there is some uncertainty about whether this deadline can be met, due to uncertainty about whether bender will receive the materials it needs from one of its suppliers by the middle of July. Right now it is July 1. How can the uncertainty in this situation be assessed? (06 Marks)

OR

- 4 a. Explain the excel formula used to calculate the following probabilities and percentiles for the standard normal distribution: i) $p(z < -2)$, ii) $p(z > 1)$, iii) $p(-0.4 < z < 1.6)$, iv) 5th percentile, v) the 75th percentile vi) the 99th percentile. (06 Marks)
b. Define normal distribution and binomial distribution. Explain the probability distribution of single random variable. (10 Marks)

Module-3

- 5 Describe the elements of decision analysis with an example. (16 Marks)

OR

- 6 a. Demonstrate the use of Bayes rule with an example. (06 Marks)
b. Explain the methods for selecting random samples. (10 Marks)

Module-4

- 7 a. Bring out the relationship between t-distribution and standard normal distribution. (04 Marks)
b. What is confidence interval? And Discuss the confidence interval for difference between means. (12 Marks)

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OR

- 8 a. Explain the role of significance level and rejection region in hypothesis testing. (03 Marks)
b. Distinguish between 1-tail test and 2-tail test. (03 Marks)
c. Explain the steps involved in hypothesis testing for a population mean with an example. (10 Marks)

Module-5

- 9 a. What is regression analysis? Discuss the importance and uses of various categories of regression analysis. (06 Marks)
b. Explain the procedure of fitting a simple linear regression line by least square method and how it is obtained in excel regression procedure? Give its interpretation. (10 Marks)

OR

- 10 a. Explain the characteristics of multiple regressions. (04 Marks)
b. How will you make inference about regression coefficients? Explain. (12 Marks)

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