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| **ASSIGNMENT** | |
| **Course Code** | 19CSC301A |
| **Course Name** | Probability and Statistics |
| **Programme** | B. Tech. |
| **Department** | Mathematics and Statistics |
| **Faculty** | FMPS |

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| **Name of the Student** | Subhendu Maji |
| **Reg. No** | 18ETCS002121 |
| **Semester/Year** | 5TH SEM / 2018 BATCH |
| **Course Leader/s** | Dr Subramanyam T |

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| **Declaration Sheet** | | | | | | | | |
| Student Name | Subhendu Maji | | | | | | | |
| Reg. No | 18ETCS002121 | | | | | | | |
| Programme | B. Tech. | | | | | Semester/Year |  | |
| Course Code | 19CSC301A | | | | | | | |
| Course Title | Probability and Statistics | | | | | | | |
| Course Date |  | | to | |  | | | |
| Course Leader | Dr Subramanyam T | | | | | | | |
| **Declaration**  The assignment submitted herewith is a result of my own investigations and that I have conformed to the guidelines against plagiarism as laid out in the Student Handbook. All sections of the text and results, which have been obtained from other sources, are fully referenced. I understand that cheating and plagiarism constitute a breach of University regulations and will be dealt with accordingly. | | | | | | | | |
| Signature of the Student | |  | | | | | Date |  |
| Submission date stamp  (by Examination & Assessment Section) | |  | | | | | | |
| Signature of the Course Leader and date | | | | Signature of the Reviewer and date | | | | |
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| **Faculty of Mathematical and Physical Sciences** | | | |
| **Ramaiah University of Applied Sciences** | | | |
| Department / Faculty | Mathematics and Statistics /  FMPS | Programme | B. Tech. |
| Semester/Batch | 5th / 2018 | | |
| Course Code | 19CSC301A | Course Title | Probability and Statistics |
| Course Leader(s) | Dr Bhargavi Deshpande and Dr Subramanyam T | | |

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|  | **Course Assessment** | | |
| Reg.No. | **18ETCS002121** | Name of the Student | **SUBHENDU MAJI** |

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| Sections |  | **Marking Scheme** |  | Marks |  |
| Max Marks | Marks  Scored | CO |
| **Part**  **-**  **A** | 1.1 | Describe the normal distribution | 10 |  | 1 |
|  | Part-A Max Marks | **10** |  |  |
| **Part**  **-**  **B** | 2.1 | Determine the probabilities | 05 |  | 2 |
| Determine the expected value and standard deviation | 05 |  | 3 |
| 2.2 | State the hypotheses | 02 |  | 3 |
| Test statistic and calculations | 05 | 4 |
| Interpretation and Conclusion | 03 | 5 |
|  | Part-B Max Marks | **20** |  |  |
| **Part**  **-**  **C** | 3.1 | State the model and fit the data | 07 |  | 5 |
| Prediction and plot the graph | 03 | 5 |
| 3.2 | Determine the probabilities | 10 |  | 2 |
|  | Part-C Max Marks | **20** |  |  |
|  |  | **Total Assignment Marks** | **50** |  |  |

# **Question No. 1**

**Solution to Question No. 1:**

## 1.1 Describe the normal distribution

# **Question No. 2**

**Solution to Question No. 2:**

## 2.1.1 Determine the probabilities

## 2.1.2 Determine the expected value and standard deviation

## 2.2.1 State the hypotheses

## 2.2.2 Test statistic and calculations

## 2.2.3 Interpretation and Conclusion

# **Question No. 3**

**Solution to Question No. 3:**

## 3.1.1 State the model and fit the data

## 3.1.2 Prediction and plot the graph

## 3.2.1 Determine the probabilities

**Bibliography**

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