

2056  
B.Sc. Data Analytics (FYUP)  
Second Semester  
BDA-202: Basics of Data Analytics

Time allowed: 3 Hours

Max. Marks: 45

**NOTE:** Attempt five questions in all, including Question No. 9 (Section- E) which is compulsory and selecting one question each from Section A-D

x-x-x

**SECTION-A**

- |   |   |   |
|---|---|---|
| 1 | Discuss the applications of Data Analytics in various fields. | 9 |
| 2 | Discuss various Data Analytics techniques in detail.          | 9 |

**SECTION-B**

- |   |  |     |
|---|--|-----|
| 3 | Discuss various data collection methods in detail. | 9   |
| 4 | Write short note on:-                              |     |
|   | a) Primary and secondary data                      | 4.5 |
|   | b) Data transformation and normalization.          | 4.5 |

**SECTION-C**

- |   |   |   |
|---|---|---|
| 5 | What do you mean by Probability? How various types of probability distributions differs based on their characteristics? | 9 |
| 6 | What are various Data visualization techniques? Discuss in detail.  | 9 |

**SECTION-D**

- |   |  |   |
|---|--|---|
| 7 | What do you mean by Spreadsheet Software? How to sort & filter data in Spreadsheet Software?   | 9 |
| 8 | What do you mean by Data Management? How data is managed using Math and statistical functions. | 9 |

**SECTION-E**

- |   |  |   |
|---|--|---|
| 9 | Write Short Notes on:                    |   |
|   | a) Need for Data Analytics               | 2 |
|   | b) Web scraping                          | 2 |
|   | c) Null and alternative hypotheses       | 2 |
|   | d) Defining and grouping database ranges | 3 |

x-x-x