

TAMIL NADU OPEN UNIVERSITY

School of Computer Science

SPOT ASSIGNMENT AY 2018-19

NOTE : Part A Contains 3 Questions and will carry 5 Marks each, Part B Contain 1 Question and will carry 10 Marks. Students are requested to write 150 words and should not exceed 2 pages each in Part A, 300 words and should not exceed 4 pages in Part B.

Diploma in Data Sciences and Big Data Analytics - DDS

Course Code: DDS- 01

Course Title: Data Collection and DBMS

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Explain Dataware Housing concept.
2. What is database system? Explain its purposes.
3. Illustrate the ER-Diagrams in detail

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

4. a) Explain all the Normal Forms in detail.
(OR)
b) Illustrate the transaction management in detail.

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Diploma in Data Sciences and Big Data Analytics – DDS

Course Code: DDS-02

Course Title: Data Mining Techniques

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Explain Metedata in detail.
2. What is Online Analytical Processing (OLAP)? Explain about it.
3. Explain Hierarchical Methods.

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

4. a) Explain in detail about various Kinds of Association Rules.
(OR)
b) Explain the Clustering Methods in detail

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Diploma in Data Sciences and Big Data Analytics – DDS

Course Code: DDS-03

Course Title : Big Data Analytics

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Explain Big data applications.
2. Write about Hadoop Eco System in detail.
3. List out the Hadoop Shell commands and explain.

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

4. a) Elaborate the Hive Architecture and Installation.

(OR)

- b) Explain the Hadoop Architecture in detail.

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NOTE : Part A Contains 3 Questions and will carry 5 Marks each, Part B Contain 1 Question and will carry 10 Marks. Students are requested to write 150 words and should not exceed 2 pages each in Part A, 300 words and should not exceed 4 pages in Part B. Referring Materials.

Diploma in Data Sciences and Big Data Analytics – DDS

Course Code: DDS-04

Course Title: Programming With Python

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

- 1.Explain the basic data types in Python.
- 2.Discuss XML parsing.
- 3.List out the special methods in Python and explain.

Part- B- Long Answer Questions

Answer the following question

(1 X 10 = 10 Marks)

4. a) Explain about Python Debugger and profiler.
(OR)
b) How to create extensible programs.

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NOTE : Part A Contains 3 Questions and will carry 5 Marks each, Part B Contain 1 Question and will carry 10 Marks. Students are requested to write 150 words and should not exceed 2 pages each in Part A, 300 words and should not exceed 4 pages in Part B.

Diploma in Data Sciences and Big Data Analytics – DDS

Course Code : DDS-05

Course Title: Statistical Analysis With R

(Total Marks=25)

Part- A- Short Answer Questions

Answer all questions

(3 X 5 = 15 Marks)

1. Explain the following functions.
 - a) Mean()
 - b) sd()
 - c) qnorm()
2. Discuss about Rogers notation in detail.
3. What is permutation test? Explain.

Part- B- Long Answer Question

Answer the following question

(1 X 10 = 10 Marks)

4. a) Explain in detail about profiler in R.
(OR)
b) Illustrate Bootstrapping in R