LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – **DATA SCIENCE**

THIRD SEMESTER – **NOVEMBER 2022**

PDS 3601 – BIG DATA SECURITY

Date: 02-12-2022   Dept. No.   Max. : 100 Marks
Time: 09:00 AM - 12:00 NOON

PART – A

Q. No	Answer ALL questions	(5 x 2 = 10 Marks)

1 Define: Big Data Security.

2 List down the companies that are using Big Data.

3 What is Liability in Big Data?

4 What is activity Log in big data?

5 What is Kinit ?

6 List out the four service level access controls in Hadoop security implementation

7 What is the use of flume?

8 Define the term Sqoop.

9 What is LDAP?

10 What is Pig in Hadoop?

PART – B

Answer FIVE questions   **(5 x 8 = 40 Marks)**

11 a) Why privacy is important in Big data and explains?

Or

b) State two major area that big data can affect to improve the security.

12 a)Explain classifying data in big data security with neat diagram

Or

b) What is Big Data Analytics and explain.

13 a) What is Kerberos? Write its terminologies.

Or

b) Explain Hadoop Kerberos Security Implementation with neat diagram.

14 a) Discuss Big Data Security Using Hive sentry Method.

Or

b) How to Secure HBase in Hadoop Ecosystem?

15 a) Discuss: How to Secure Sensitive Data in Hadoop.

Or

b) What is security incident and even monitoring in Hadoop Cluster?

16   a) Explain Ethical guidelines in Big Data Security.

        b) Explain Intellectual property challenge.

17   a) Analyze Hadoop default security model without kerberos.

        b) Describe the process to secure Flume in Hadoop Ecosystem with neat illustration.

18   a) Discuss SIEM Components with neat illustration.

        b) Explain the concept of Integrating Hadoop with Enterprise Security Systems with neat diagram.

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