

CDOE
BACHELOR OF COMPUTER APPLICATIONS (CBCS-2019 COURSE)
B.C.A. SEM - V : WINTER :- 2021
SUBJECT: ELECTIVE-I : BIG DATA - INTRODUCTION TO BIG DATA

Day : Monday
Date 28-02-2022

W-21892-2021

Time : 02:00 PM-05:00 PM
Max. Marks: 60

N.B.

- 1) Q.No. 4 from Section I is **COMPULSORY**.
- 2) Answer **ANY TWO** questions from Q.1,2,3 in Section – I.
- 3) Answer **ANY TWO** questions from Q.5,6,7 in Section – II.
- 4) All questions carry **EQUAL** marks.
- 5) Answer to both the sections should be written in **SAME** answer book.
- 6) draw a labeled diagram **WHEREVER** necessary.

SECTION – I

- Q.1** Answer the following : **(6 marks x 2 = 12 marks)**
- a) Define Big Data. Explain 3V's associated with Big Data.
 - b) How is Hadoop related to Big Data?
- Q.2** Answer the following : **(6 marks x 2 = 12 marks)**
- a) What is Michael Porter's five forces model?
 - b) How can Big Data add value to businesses?
- Q.3** Answer the following : **(6 marks x 2 = 12 marks)**
- a) Illustrate how can Big Data improve customer experience?
 - b) Elaborate the Big Data envisioning process.
- Q.4** Write short notes on **ANY THREE** of the following : **(4 marks x 3 = 12 marks)**
- a) Map reduce
 - b) Pig
 - c) KPI
 - d) Data discovery
 - e) WEKA
 - f) Data mart

SECTION – II

- Q.5** Answer the following : **(6 marks x 2 = 12 marks)**
- a) Describe the roles and responsibilities of data scientist.
 - b) Elaborate Big Data architecture.
- Q.6** Answer the following : **(6 marks x 2 = 12 marks)**
- a) Explain in detail Porter's Value Chain Model.
 - b) Explain the role of Big Data in decision making process.
- Q.7** Answer the following : **(6 marks x 2 = 12 marks)**
- a) How is Network File System (NFS) different from Hadoop Distributed File System (HDFS)?
 - b) What are the technologies in Big Data? Explain any two.
