Voc(S-V) — BCA
(CC – 12)

2023

Time : 3 hours

Full Marks : 70

Pass Marks : 32

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from **all** the Sections as directed.

Section – A

(Objective Type Questions)

1. Choose the correct answer from given options :
   1×5 = 5

   (a) How many V's of Big Data ?

   (i) 2   (ii) 3

   (iii) 4   (iv) 5

   (b) What are the different features of Big Data Analysis ?

   (i) Open source   (ii) Scalability

   (iii) Data Recovery   (iv) All of these

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(Turn over)

(c) Big Data Analysis does the following except :

    (i) Collects data   (ii) Spread data

    (iii) Organises data   (iv) Analysis data

(d) The new source of big data that will trigger a Big Data revolutions in the year to come is :

    (i) Business transaction

    (ii) Social Media

    (iii) Transactional Data

    (iv) RDBMS

(e) The word 'Big data' was coined by :

    (i) Roger Mougalas

    (ii) John Philips

    (iii) Simon Woods

    (iv) Martin Green

2. Fill in the blanks :   1×5 = 5

(a) SEMMA stands for _____.

(b) _____ is a common programming language used for big data processing.

(c) Large _____ of Data is considered as big data.

(d) Variety describe one of the biggest challenges of _____.

(e) Veracity makes sure that the data is _____.

Section – B

(Short-answer Type Questions)

3. Answer any **four** questions of the following :

$$5 \times 4 = 20$$

(a) How important is Big Data for Project Management ?

(b) Explain the phases of the Data Mining Life Cycle in BDA.

(c) Differentiate between Data Mining and Data Science.

(d) What is Big Data Analysis ? Explain the importance of BDA.

(e) Explain the Machine learning in respect of BDA.

(f) Explain any **two** of the following :

(i) Problem definition

(ii) 'R' in Big Data Analysis

(iii) SQL

(iv) HDFS

XH – 14/3   (3)

Section – C

(Long-answer Type Questions)

4. Answer any **four** questions of the following :

$$10 \times 4 = 40$$

(a) Explain the CRISM-DM. Methodology in Data Mining.

(b) Describe the BDA Life Cycle.

(c) Explain the characteristics of BDA.

(d) Explain the Statistical Method of Big Data Analysis.

(e) Explain the main components of Big Data Analysis.

(f) Explain any **two** of the following :

    (i) Regression Analysis

    (ii) Statistical Modelling

    (iii) Ad-HOC Analysis

    (iv) Project Description

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