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Voc(Sem-V) —  
BCA (CC – 12)**2023***Time : 3 hours**Full Marks : 70*

*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) Which of the following are benefits of Big Data Processing ?

- ☒ (i) Cost Reduction
- ☐ (ii) Five Reduction
- ☐ (iii) Smarter Business decesion
- ☒ (iv) All of these



(b) Amongst which of the following can be considered as the main source of unstructured data ?

- (i) Twitter
- (ii) Facebook
- (iii) Web Pages
- (iv) ☒ All of these

(c) Reporting and Visualization enables :

- ☒ (i) Processing of the Data
- ☒ (ii) Friendly Representation
- ☒ (iii) Both (i) and (ii)
- (iv) None of these

(d) Which of the following represent the use of Hadoop ?

- (i) Robust and Scalable
- (ii) Affordable and Cost effective
- (iii) Adaptive and Flexible
- ☒ (iv) All of these

(e) Big Data Analysis does the following except :

- (i) Collects data
- ☒ (ii) Spread data
- (iii) Organise data
- (iv) Analyzes data



2. Fill in the blanks of the following :  $1 \times 5 = 5$

- (a) Total form of big data is \_\_\_\_\_.
- (b) The V's of big data is \_\_\_\_\_.
- (c) Large \_\_\_\_\_ of data is considered as big data.
- (d) DSS in data warehouse stands for \_\_\_\_\_.
- (e) \_\_\_\_\_ is difficult to store, Collect, maintain, Analyze and Visualize.

### Section – B

#### (Short-answer Type Questions)

3. Answer any four questions of the following within 200 words each :  $5 \times 4 = 20$

- ✓ (a) Explain the benefits of BDA.
- ✓ (b) Explain the components of BDA.
- (c) Describe the Data Mining Life Cycle in BDA.
- ✓ (d) What is Stakeholder ? Explain the types of stakeholder in BDA.
- (e) What is Data cleansing ? Explain the Homogenization and Hetrogenization.
- (f) What is Hadoop ? What are its application in BDA ?



## Section – C

### (Long-answer Type Questions)

4. Answer any four questions of the following :

10×4 = 40

(a) What is SEMMA ? Explain its phases with diagram.

(b) What is Regression Analysis ? Explain the benefits of Regression Analysis in BDA.

(c) Differentiate between Data Analyst and Data Scientists.

(d) What is problem definition ? Describe the problem definition of project in BDA.

(e) Explain the following :

(i) CRISP – DM

(ii) Data Visualisation

(iii) R-system

(iv) Chart and Graphs

