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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 :

$$1 \times 5 = 5$$

(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 Heterogenization.
- (f) What is Hadoop ? What are its application in BDA ?

Section – C

(Long-answer Type Questions)

4. Answer any four questions of the following :

$$10 \times 4 = 40$$

(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