End TermAssessment- January 2022

Semester -V

B.Tech. CSE (**Devops**) – 2019

Subject Code: CDV3021 Subject Name: Big Data Overview

Duration: 3 hours (including time for uploading)

Max. Marks: 50

Instructions

- Write name and registration number, page number, on all the pages, convert into one PDF, tag it with your registration number_Name_subjectcode_subject title
- The Assessment consists of 2 sections
 - Part A contains 10 questions of 2 marks each and all questions are compulsory.
 - o Part B consists of 4 questions of 10 marks each, out of which 3 questions to be attempted.
- Hand written responses to be submitted/uploaded as scanned pages of answer sheets (max. 5 pages) within the mentioned duration. 6th page and onwards won't be evaluated

PART - A

2 * 10 =20 Marks (Each answer- Word Limit- 50 Words)

1. What are the limitations of a structured data?	(2)
2. What are relational databases? Give examples also.	(1+1)
3. What do you understand by Big data processing?	(2)
4. Write any 2 advantage associated with horizontal scaling.	(2)
5. Write any 2 reason for choosing data lake over data warehouse with the help of an example.	(2)
6. Give any 4 examples of unstructured data.	(4*0.5=2)
7. What is the purpose of using Big data analytics?	(2)
8. What is the function of a Job tracker in Hadoop?	(2)
9. Is Load balancing required in cloud environment? Give reason also.	(1+1)
10. List the components of a data lake.	(2)

PART – B

10 * 3 = 30 Mark (Each answer- Word limit- 250 words)

11. What are the problems associated with data explosion? Enumerate 4 sources of data generation with atleast one example? (6+4)
12. What do you understand by the term Big Data? Elaborate different dimensions of big data. (2+8)
13. What is the need of horizontal scaling? Is horizontal scaling good for big data? (6+4)
14. For what use cases data lake is suitable? Explain the components of a data lake in brief. (3+7)