

SSN COLLEGE OF ENGINEERING
Department of Computer Science and Engineering
B.E. Computer Science
CS6703 - GRID AND CLOUD COMPUTING

31 AUG 2017, 8 - 9.30 AM
Academic Year: 2017-18 ODD

Unit Test 2 - Retest

Max Marks: 50
Batch: 2014-18

Faculty: Dr. K. Vallidevi / Ms. Y. V. Lokeswari

PART A

10 × 2 = 10

1. What is the role of Resource broker in Grid? (CO1,K2)
2. List down the Grid Middleware Packages. (CO3,K2)
3. Give some motivations for Hadoop framework. (CO3,K2)
4. What is the use of Heartbeat and Block report messages in HDFS. (CO3,K2)
5. What is the role of partitioning function in Map workers. (CO3,K2)

PART B

30 MARKS

***** Answer all Questions *****

6. (a) Explain in detail the Hadoop Architecture with appropriate diagram. (CO3, K2) (10)
(OR)
(b) Explain about how a job gets executed in Hadoop architecture with a diagram. (CO3, K2)
(10)
7. (a) Explain in detail about GFS architecture. Highlight the similarities and differences between GFS and HDFS. (CO3, K2) (5 + 5)
(OR)
(b) Explain the drawback of Hadoop and how it is overcome by Twister. (CO3, K2) (10)
(P. T. O.)

8. (a) (i) Discuss about Layered Architecture of Grid. (CO1, K2) (5)
(ii) Give some applications of Grid Computing. (CO1, K3) (5)
(OR)

- (b) Enumerate the steps involved in writing and reading a file from HDFS with diagram. (CO3, K2) (10)

PART C

10 MARKS

***** Compulsory Question *****

9. How Hadoop provides Fault Tolerance. Explain it with a real time scenario. (CO3, K3) (10)

*** ALL THE BEST ***

Prepared by

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Reviewed by

HoD, CSE