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II SEMESTER MCA END SEMESTER EXAMINATIONS APRIL 2018 SUBJECT: CLOUD COMPUTING (MCA 4204)

REVISED CREDIT SYSTEM

(27/04/2018)

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

- Answer ALL FIVE questions.
- Missing data may be suitable assumed.

| 1A. | Explain in detail Google's solution for processing big data over the traditional database approach with suitable examples and diagrams. | 5 |
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| 1B. | What is Hadoop Distributed File system? How does Hadoop work? What are the advantages of Hadoop? | 3 |
| 1C. | Explain any four criteria for selecting the right cloud service provider. | 2 |
| 2A. | With a suitable diagram, explain the cloud computing life cycle. | 5 |
| 2B. | Explain the cloud load balancing algorithm evaluation parameters. Categorize the cloud load balancing algorithms and explain different types. Explain Min- Min load balancing algorithm. | 3 |
| 2C. | Differentiate shared memory MIMD machine and distributed memory MIMD machine. | 2 |
| 3A. | Explain different types of cloud deployment models with examples. Also mention the advantages and disadvantages. | 5 |
| 3B. | With suitable diagrams, explain different types of communication models for IOT implementation? | 3 |
| 3C. | Explain the approaches of parallel programming. | 2 |

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| 4A. | What is big data? Explain about the 5 V's that have influence in big data. Explain about the big data processing pipeline and challenges associated in handling big data | 4 |
|-----|---|---|
| 4B. | List and explain any three Laws of Cloudonomics and any three Laws of Behavioral Cloudonomics. | 2 |
| 4C. | Differentiate scale up and scale out approaches. | 2 |
| | | |
| 5A. | What are the characteristics of virtualized environments? What is the need of abstraction in computer architecture? Explain different layers of abstraction and their role in virtualization? | |
| 5B. | Explain code and data migration approaches in cloud computing. | |
| 5C. | Compare Grid and cluster computing. | |

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