Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_

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**End Semester Examination – Nov/Dec – 2018**

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| **Code :** | **17CA3018** | **Duration :** | **3hrs** |
| **Sub. Name :** | **SECURITY IN THE CLOUD** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | With a neat sketch elaborate in detail about NIST cloud computing reference architecture. | CO2 | 20 |
| (OR) | | | | |
| 2. | a. | Give a detailed note on service models of cloud. | CO5 | 10 |
| b. | Write a brief note on characteristics of cloud computing. | CO5 | 5 |
| c. | Explain about public and private cloud. | CO6 | 5 |
|  |  |  |  |  |
| 3. |  | Discuss the different levels of virtualization with different types of hypervisors in detail. | CO3 | 20 |
| (OR) | | | | |
| 4. | a. | Write a note on CPU, Memory and I/O virtualization. | CO3 | 10 |
| b. | Explain different types of virtualization in detail. | CO3 | 10 |
|  |  |  |  |  |
| 5. |  | Elaborate the architectural design of compute and storage clouds in detail. | CO2 | 20 |
| (OR) | | | | |
| 6. | a. | Give a detailed summary on resource provisioning and platform deployment. | CO2 | 10 |
| b. | Describe about the global exchange of cloud resources. | CO2 | 10 |
|  |  |  |  |  |
| 7. | a. | Brief out parallel programming model. | CO5 | 5 |
| b. | Write shortly about distributed programming model. | CO5 | 5 |
| c. | Explain Hadoop library from apache. | CO5 | 5 |
| d. | Write about working of MapReduce programming model in brief. | CO5 | 5 |
| (OR) | | | | |
| 8. | a. | Describe the architecture of EUCALYTUS in detail. | CO5 | 10 |
| b. | Write a detailed note about Open stack. | CO5 | 10 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Describe the process of Identity Management and Access Control in detail. | CO1 | 10 |
| b. | Elaborate the different types of risks in detail. | CO1 | 10 |