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

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

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| **Code :** | **17CS2046** | **Duration :** | **3hrs** |
| **Sub. Name :** | **IT INFRASTRUCTURE AND MANAGEMENT** | **Max. marks :** | **100** |

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

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Summarize the function of the nonfunctional attribute in IT system model. | CO1 | 8 |
| b. | WinTechonlogy Software Pvt Ltd has 100 employees in the organization. The company wants to set up and use e-mail service for the organization to communicate with the business partners. Which cloud service model will suit for this need? Justify. | CO4 | 12 |
| (OR) | | | | |
| 2. | a. | Discuss the Application integration. | CO3 | 8 |
| b. | Write the role of the following terminology in IT system model.   1. Virtualization 2. Storge 3. Networking 4. Server | CO1 | 12 |
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| 3. | a. | Can you provide 100% availability of the IT system? If no substantiate your answers. | CO2 | 10 |
| b. | Illustrate the use of disk caching, web proxies, operational data storefront-end servers, In-memory databases. How it contributes to the performance of the IT system. | CO3 | 10 |
| (OR) | | | | |
| 4. | a. | Explain the implementation of redundancy at Component Level in IT organization. | CO2 | 10 |
| b. | Access the IT system performance during the design. | CO1 | 10 |
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| 5. | a. | Assume that you are working in Microsoft data center as risk manager what are risks you will have manage and How? Give a clear framework for managing risk. | CO5 | 10 |
| b. | Appraise the various pattern taken into consideration while building securing IT organization. | CO3 | 10 |
| (OR) | | | | |
| 6. | a. | Give an overview of the Confidentiality, Integrity, and Authentication. | CO1 | 10 |
| b. | Categorize the scenarios of the attack in the IT system with necessary diagram and suitable examples. | CO3 | 10 |
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| 7. | a. | Assume, You are the datacenter administrator of IBM. You are assigned to give a report on setting up a datacenter in Coimbatore by keeping in mind the location guidelines. You need to create a layout for the datacenter as well as list out categories available and which category you would suggest and how. | CO5 | 10 |
|  | b. | List the rack design tips and explain datacenter availability. | CO5 | 10 |
| (OR) | | | | |
| 8. | a. | High network availability is mandatory as downtime in the service cannot be tolerated by the customer. How can it be achieved? How do you measure the network performance? | CO6 | 10 |
| b. | Evaluate the use of network security in a datacenter. | CO5 | 10 |
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|  | | **Compulsory**: |  |  |
| 9. | a. | Illustrate the use of failover clustering. How it contributes to the availability of the operating system. | CO4 | 10 |
| b. | Compare the advantage of using VDI and thin clients instead of using traditional desktop environments. | CO3 | 10 |