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



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – April/May– 2017**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Code :** | **14CS2025** | **Duration :** | **3hrs** |
| **Sub. Name :** | **IT INFRASTRUCTURE AND MANAGEMENT** | **Max. marks :** | **100** |

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Q. No. | Sub Div. | Questions | Course  Outcome | Marks |
| 1. | a. | Categorize the scenarios of the attack in the IT system with necessary diagram and suitable examples. | CO1 | 10 |
| b. | Is security patterns are important in IT infrastructure management? If answer is Yes / No.  Justify your answer with proper examples( with Diagram). | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | Can you provide 100% availability of the IT system? If no substantiate your answers. | CO2 | 10 |
| b. | Consider the following:  Power Supply’s MTBF is : 150000 Hours  If following are the mean time to repair, calculate the availability of the Power supply:  a. 8 hours  b. 15hours  c. 54 hours | CO3 | 10 |
| 3. |  | Draw the block diagram of Mainframe architecture and list out the major requirements. | CO1 | 20 |
| (OR) | | | | |
| 4. |  | Is security patterns are important in IT infrastructure management?  Also Explain the types of security patterns. | CO2 | 20 |
| 5. |  | Explain the classification for datacenters and discuss : How to provide security for a remote data center? | CO1 | 20 |
| (OR) | | | | |
| 6. | a. | How to improve the CPU performance with the help of pipelining? | CO2 | 10 |
|  | b. | Explain Pipeline hazards. | CO1 | 10 |
| 7. |  | Consider that, A Server provides services to more than 1500 users in software company. An internet service provider offering 512Mbps internet connection to the server. Discussthe interfaces required for the server to support the internal and remote users for the software company. | CO4 | 20 |
| (OR) | | | | |
| 8. |  | What is Virtual Desktop? How to provide security in virtual environment? ( Explain your answer with proper example). | CO2 | 20 |
|  | | **Compulsory**: |  |  |
| 9. |  | Coimbatore Head Post office is try to expand the services to nearby villages in Coimbatore. They are having IBM server with main frame platform support. Head post office wants to implement the virtualization. During the implementation, what are the areas need to be concentrated. Discuss your Implementation procedure. | CO4 | 20 |