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 – Nov/Dec – 2016**

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|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **14CS3062** | **Duration :** | **3hrs** |
| **Sub. Name :** | **ROUTING AND SWITCHING TECHNIQUES** | **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. | Compare and contrast IPv4 ad IPv6. | CO2 | 5 |
| b. | Configure static routing for the network shown such that end systems are able to ping each other. Assign appropriate IP addresses. | CO3 | 15 |
| (OR) | | | | |
| 2. | a. | Write short notes on dynamic routing protocol and its classes. | CO1 | 10 |
| b. | Host A is connected to the LAN, but it cannot get access to any resources on the Internet. What could be the cause of the problem? Provide a solution. | CO1 | 10 |
| 3. |  | Configure EIGRP in the following scenario such that end systems ping each other. | CO3 | 20 |
| (OR) | | | | |
| 4. |  | Write short notes on classless routing protocols. | CO1 | 20 |
| 5. |  | Explain a scenario where default route is very useful; also, give the commands for redistribution of default route into RIP domain. | CO2 | 20 |
| (OR) | | | | |
| 6. |  | How can you configure redistribution between OSPF and RIP? | CO1 | 20 |
| 7. | a. | Explain the Aging process of Switch MAC table. | CO2 | 10 |
|  | b. | Brief the functional entities of DUAL Algorithm. | CO3 | 10 |
| (OR) | | | | |
| 8. | a. | Describe the applications of Virtual LAN. | CO2 | 10 |
|  | b. | Explain the various LAN Priority mechanisms | CO3 | 10 |
|  | | **Compulsory:** |  |  |
| 9. | a. | Explain the various Network Troubleshooting Strategies? | CO3 | 20 |

ALL THE BEST