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

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

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| **Code :** | **16CA2025** | **Duration :** | **3hrs** |
| **Sub. Name :** | **NETWORK COMPONENTS AND TROUBLE SHOOTING** | **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. | Define Broadcasting with an example. | CO1 | 5 |
| b. | Discuss the following five types of Routing methods with a neat sketch   1. Unicast Routing. 2. Multicast Routing. 3. Broadcast Routing. 4. Anycast Routing. 5. Geocast Routing. | CO3 | 15 |
| (OR) | | | | |
| 2. | a. | Explain the various benefits of VLAN Networks. | CO3 | 10 |
| b. | Discuss about configuring a VLAN with an example. | CO4 | 10 |
|  |  |  |  |  |
| 3. |  | Discuss about configuring RIPV2 with a neat Topology structure. | CO5 | 20 |
| (OR) | | | | |
| 4. | a. | Explain in detail about configuring Static Routing with proper Topology diagram. | CO2 | 15 |
| b. | What are the Network challenges of Static Routing? | CO3 | 5 |
|  |  |  |  |  |
| 5. | a. | What is Default Routing? | CO2 | 5 |
| b. | Discuss about configuring a Default Routing. | CO5 | 15 |
| (OR) | | | | |
| 6. | a. | Discuss in detail about configuring an OSPF Routing to its Router | CO6 | 15 |
| b. | Mention the benefits of OSPF Routing. | CO3 | 5 |
|  |  |  |  |  |
| 7. |  | Discuss the steps involved in configuring NAT. | CO5 | 20 |
| (OR) | | | | |
| 8. | a. | Write short notes on Domain Name Service (DNS). | CO3 | 10 |
| b. | Describe about the DNS Tree Hierarchy. | CO4 | 10 |
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|  | | **Compulsory**: |  |  |
| 9. |  | Discuss about the following concepts of TCP/IP protocol with a neat sketch.   1. TCP Datagram. 2. TCP Three-way Handshake. 3. Terminating the TCP connection. 4. UDP Datagram. | CO5 | 20 |