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



**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **16CA2012** | Duration : | **3 Hrs.** |
| **Sub. Name :** | **NETWORK FUNDAMENTALS** | 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. | Justify the need for Computer Networks. | CO1 | 10 |
| b. | Can Communication Satellites be used for networking? Justify with examples. | CO2 | 10 |
| (OR) | | | | |
| 2. | a. | Briefly explain the OSI Reference Model with necessary diagrams. | CO1 | 20 |
|  |  |  |  |  |
| 3. | a. | Elaborate the concept of Carrier Sense Multiple Access Protocols with Collison Detection through suitable examples. | CO2 | 20 |
| (OR) | | | | |
| 4. | a. | Discuss the different types of Ethernet through suitable examples. | CO3 | 20 |
|  |  |  |  |  |
| 5. | a. | Discuss the need for Internetworking in detail through suitable examples. | CO4 | 20 |
| (OR) | | | | |
| 6. | a. | Justify the need for Shortest Path Algorithm with necessary example. | CO4 | 20 |
|  |  |  |  |  |
| 7. | a. | Discuss the various elements needed for Transport Protocols. | CO5 | 20 |
| (OR) | | | | |
| 8. | a. | Elaborate the Congestion control mechanism adopted in the Transport Layer. | CO5 | 20 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Highlight the need for Domain Name System (DNS). | CO6 | 10 |
|  | b. | Differentiate between the working of Static and Dynamic web pages through suitable examples. | CO6 | 10 |