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

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

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| **Code :** | **17CS2060** | **Duration :** | **3hrs** |
| **Sub. Name :** | **TCP/IP** | **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 OSI and TCPI/IP with the neat sketch. | CO3 | 15 |
| b. | Sketch the MAC layer frame format of Wireless LAN. | CO1 | 5 |
| (OR) | | | | |
| 2. | a. | Describe how point-to-point WAN connects two remote devices using the public network. | CO1 | 10 |
| b. | Discuss how chance of collision is minimized with CSMA/CD and CSMA/CA with the flow diagram. | CO1 | 10 |
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| 3. | a. | Design a network addressing scheme that will supply the minimum number of subnets, and allow enough extra subnets and hosts for 100% growth in all areas. Compute the subnet network address, first usable address, last usableaddress,broadcast address for each subnet. | CO2 | 10 |
| b. | Discuss the ARP protocol with the required header format and example. | CO2 | 10 |
| (OR) | | | | |
| 4. | a. | Explain the OSPF protocol with different types of OSPF packets. | CO4 | 10 |
| b. | Elaborate the working operation of mobile host communicating with remote host using mobile IP. | CO4 | 10 |
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| 5. | a. | Elaborate the working of Selective-repeat protocol with example. | CO3 | 10 |
| b. | Draw the format of user datagram and explain the UDP Protocol. | CO3 | 10 |
| (OR) | | | | |
| 6. | a. | Describe the different phases in TCP connection management. | CO3 | 12 |
| b. | Explain the Silly window syndrome of TCP and discuss the proposed solution. | CO3 | 8 |
|  |  |  |  |  |
| 7. | a. | Draw and explain the DHCP client server transition diagram. | CO5 | 10 |
| b. | Discuss the two name resolution methods. | CO5 | 10 |
| (OR) | | | | |
| 8. |  | Discuss the types of web documents and explain the HTTP protocol to illustrate the transaction between client and server. | CO5 | 20 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | With neat sketch explain the header format of IPv6 datagram. | CO6 | 10 |
| b. | Elaborate the ICMPv6 error reporting message types. | CO6 | 10 |