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



**End Semester Examination – Nov/Dec– 2017**

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| **Code :** | **14CS3029** | **Duration :** | **3hrs** |
| **Sub. Name :** | **NETWORK MANAGEMENT** | **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. | Describe the communication protocols and standards. | CO1 | 10 |
| b. | Explain the reason why the performance of an Ethernet LAN decreases with increase in the number of workstation on the LAN? | CO1 | 10 |
| (OR) | | | | |
| 2 | a. | Why a Network management strategy should be designed? and Summarize network management categories and their design analysis. | CO2 | 15 |
| b. | Respond to the above request with get-response PDU with the reply no such name | CO2 | 5 |
|  |  |  |  |  |
| 3. | a. | Illustrate the Differences between the SNMPv1 and SNMPV2. | CO2 | 10 |
|  | b. | How do SNMPv2 enforce compatibility with SNMPv3? | CO2 | 10 |
| (OR) | | | | |
| 4. | a. | Elaborate the five types of applications in SNMPv3. | CO2 | 10 |
|  | b. | Write the detail about the system overview and information model of SNMP in detail. | CO2 | 10 |
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| 5. | a. | Justify the role of SNMP in ATM management. | CO2 | 7 |
|  | b. | Outline the privacy and authentication service for an outgoing Message in SNMPV3. | CO2 | 13 |
| (OR) | | | | |
| 6. | a. | Assume a LAN network of 10,000 nodes. The network is subdivided into 10 sebnets. Design a heartbeat monitoring system, using RMONs that indicate failures to the NMS within a minute of a failure. | CO3 | 15 |
|  | b. | What are the issues faced in ATM Remote monitoring? | CO3 | 5 |
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| 7. | a. | List various status monitoring tools in Network Management. | CO3 | 5 |
|  | b. | When communication between the ATM switches is broken, what type of Mx interface to be used? Explain. | CO3 | 10 |
|  | c. | Explain how ping works in network management. | CO3 | 5 |
| (OR) | | | | |
| 8. |  | Explain in detail various network Statistics Measurement Systems. | CO3 | 20 |
|  | |  |  |  |
|  | | **Compulsory**: |  |  |
| 9. | a. | Analyze various requirements to design NMS Server for a telecommunication system. | CO3 | 10 |
|  | b. | Examine the architecture and major design aspects of the NMS server. | CO3 | 10 |

ALL THE BEST