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



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**Supplementary Examination – June – 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. | Consider a network of multi vendor network components. Hubs are made by Cabletron and are managed by cabletron’s spectrum NMS. Routers are made by CISCO and are managed by CISCO works NMS. The entire network is managed by general purpose NMS auch as HP open view Network Node Manager. Draw a two tier namagement network. | CO1 | 10 |
| b. | Design the above network with three tier and draw a comparative table of both organizational model. | CO1 | 10 |
| (OR) | | | | |
| 2. | a. | Discuss the various network management goals and functions. | CO1 | 10 |
| b. | Apply network management functions in improving the performance, security configuration, accounting and fault tolerance of a network. | CO1 | 10 |
| 3. | a. | Compare and Contrast SNMPv1 and SNMPV2. | CO2 | 10 |
|  | b. | List the chages introduced in SNMPV2 MIB Group. | CO2 | 5 |
|  | c. | Sketch the get request message format for SNMPV2. | CO2 | 5 |
| (OR) | | | | |
| 4. |  | Explain the organizational and Communication model of SNMPV1. | CO2 | 20 |
| 5. |  | With neat sketch explain the architecture of SNMPV3. | CO2 | 20 |
| (OR) | | | | |
| 6. | a. | Narrate how access control in enforecedin SNMPV3 | CO2 | 10 |
|  | b. | How is confidentiality enforced in SNMPv3? | CO2 | 10 |
| 7. | a. | List the various Route monitoring tools . | CO3 | 5 |
|  | b. | What are the various traffic monitoring tools and explain the working of each tool. | CO3 | 15 |
| (OR) | | | | |
| 8. | a. | What is remote monitoring? | CO3 | 5 |
|  | b. | Differentiate V1 and V2 Remote monitoring. | CO3 | 5 |
|  | c. | Explain RMON1 in detail. | CO3 | 10 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Describe the key design consideration to design a NMS server. | CO3 | 10 |
|  | b. | Explain the role of Fault Manager in NMS server. | CO3 | 10 |

ALL THE BEST