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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belgaum)

First Semester, M. Tech - Computer Engineering (MCEN)

Make – up Examination; Feb - 2016

Network Management

Time: 3 hrs

Max. Marks: 100

Note: Answer FIVE full questions, selecting ONE full question from each unit.

UNIT - I

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|---|----|--|----|
| 1 | a. | Define Network management. Explain Network management goals and functions. | 10 |
| | b. | What are the different types of Network management model? Explain the functions of
i) Information model ii) Communication model. | 10 |
| 2 | a. | What are the challenges of IT managers? Explain. | 10 |
| | b. | What are the components of organization model? With a neat diagram explain how these components interact with each other. | 10 |

UNIT - II

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|---|----|--|----|
| 3 | a. | Explain clearly the functions of two tier and three tier SNMP organization model. | 10 |
| | b. | With a neat diagram, explain the classification of ASN. 1 data types. | 10 |
| 4 | a. | With a neat sketch explain the SNMP Network management architecture. | 10 |
| | b. | Explain SNMP protocol specification for the communication between manager and the agent. | 10 |

UNIT - III

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|---|----|--|----|
| 5 | a. | Explain SNMPV2 system architecture with neat diagram. | 10 |
| | b. | Explain common RMON1 and Ethernet groups. | 10 |
| 6 | a. | What is Remote monitoring? Explain the Relationship between control and data tables. | 10 |
| | b. | Explain RMON token – Ring extension groups. | 10 |

UNIT - IV

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|---|----|---|----|
| 7 | a. | Explain TMN architecture with neat diagram. | 10 |
| | b. | Write a short notes on, i) Report Management ii) Performance management. | 10 |
| 8 | a. | Explain TMN conceptual model in detail. | 10 |
| | b. | Write a short notes on i) Policy based management ii) Fault management. | 10 |

UNIT - V

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|----|----|--|----|
| 9 | a. | Explain ADSL management in detail. | 10 |
| | b. | Explain WBEM architecture with neat diagram. | 10 |
| 10 | a. | Discuss the functions of the different broad band access technology. | 10 |
| | b. | Explain XML – based agent architecture. | 10 |

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