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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)
Semester End Examination; Jan/Feb. - 2016
Network Management

Time: 3 hrs   *Max. Marks: 100*

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

UNIT - I

1 a.	Discuss the challenges of information technology managers.	13
b.	Explain Network management dumbbell architecture with a neat diagram.	7
2 a.	Explain models listed below with necessary diagrams; i) Network Management model ii) Organization model iii) Information model.	12
b.	Describe how on NMS monitor a sub network using a commercial network management system with a diagram.	8

UNIT - II

3 a.	Explain clearly the functions of two tier and three tier SNMP organization model.	8
b.	Explain with block diagram SNMP ASN.1 Data type.	8
c.	Write SNMP access policy.	4
4 a.	Explain with a neat diagram the SNMP Network management architecture.	10
b.	Describe SNMP protocol specifications and Get Request PDU operation.	10

UNIT - III

5 a.	Discuss major improvements to the architecture in SNMPV2.	10
b.	What is Remote Monitoring? Explain RMON SMI and MIB.	10
6 a.	Explain SNMPV2 structure of management information with neat diagram.	10
b.	Relate RMON1 and RMON2 and explain the improvements in RMON2.	10

UNIT - IV

7 a.	Describe with a neat diagram TMN conceptual model.	10
b.	Explain how performance statistics play an essential part in network management. Explain performance management in details.	10
8 a.	Explain three architectural perspective of TMN.	14
b.	Write a note Fault management.	6

UNIT - V

9 a.	Explain with diagram broadband access networks technologies.	10
b.	Describe ADSL technology.	10
10 a.	Write a note on cable modem.	10
b.	Discuss about ADSL Management.	10

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