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**Eighth Semester B.E. Degree Examination, Dec.2017/Jan.2018**  
**Network Management System**

Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions, selecting at least TWO questions from each part.**

**PART – A**

- 1 a. What is distributed computing environment? Explain the distributed computing environment with LAN, WAN and client – server model. (10 Marks)  
b. What are the challenges of IT managers? (05 Marks)  
c. Draw a neat diagram of application – specific protocols in OSI and internet models. (05 Marks)
- 2 a. What is network management model? Write short notes about each model. (10 Marks)  
b. Explain the structure of an ASN:1 macro along an example object identity macro? (06 Marks)  
c. Draw the management information tree. (04 Marks)
- 3 a. What is organization model? Explain the different types of organization model with diagram. (08 Marks)  
b. Explain SNMP[Simple Network Management Protocol] network management architecture with a neat diagram. (07 Marks)  
c. How manager and agent communicate with each other in SNMP Network Management Architecture. (05 Marks)
- 4 a. What is managed objects? Explain the structure and macros for managed objects. (10 Marks)  
b. Define interface group – with neat diagram explain the sublayers of interface group. (10 Marks)

**PART – B**

- 5 a. What is remote monitoring? Explain the relationship between control and data tables with diagram. (08 Marks)  
b. Explain in detail about the RMON1 Ethernet group and function. (10 Marks)  
c. Write the difference between RMON1 and RMON2. (02 Marks)
- 6 a. What is ATM network? Explain the technology used in ATM network. (10 Marks)  
b. Explain the M<sub>1</sub>, M<sub>2</sub> interface of the ATM network. (10 Marks)
- 7 a. Explain the data over cable reference architecture with diagram. (10 Marks)  
b. What is ADSL? What are the elements involved in ADSL? Explain the different types of ADSL management. (10 Marks)
- 8 a. What is rule based reasoning? Explain in detail. (10 Marks)  
b. Explain policy management architecture and service level management. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.