Reg. No.												

Question Paper Code	11585

B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV/DEC 2022
Third Semester
M.E. - Computer Science and Engineering (Specialization in Networking)
20PCNEL301 - NETWORK MANAGEMENT
(Regulations 2020)

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)
Answer ALL Questions

		Marks, K-Level, CO
1.	Define the principle and functions of OSI network management.	2,K1,CO1
2.	Classify the ASN.1 data types, with neat diagram.	2,K2,CO1
3.	Outline the functions of fault management.	2,K1,CO2
4.	Define the term VPC.	2,K1,CO2
5.	Distinguish between SNMPv1 and SNMPv2 Protocols.	2,K2,CO3
6.	What is trap? List their types.	2,K2,CO3
7.	List out the network management tools.	2,K1,CO4
8.	What is the function of Protocol Analyzer?	2,K2,CO4
9.	What is fault management in web based network management system?	2,K2,CO5
10.	List out the types of web based management tools.	2,K1,CO5

PART - B (5 × 13 = 65 Marks)
Answer ALL Questions

11.	a)	Describe about the OSI network management organizational model and information model with neat diagram	13,K2,CO1
		OR	
	b)	Discuss in detail about the Macros functional model CMIP/CMIS?	13,K2,CO1

12.	a)	Elaborate with a neat diagram about ATM LAN Emulation network by using layered architecture and discuss the generic troubles in ATM elements.	13,K2,CO2
		OR	
	b)	(i) Explain the features of Virtual LAN in detail.	6,K2,CO2
		(ii) What is the role of ILMI in ATM management? Explain in detail.	7,K2,CO2

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create   **11585**

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13. a) Draw the SNMP Architecture and explain the Administrative Model of SNMPv2. *13,K2,CO3*

OR

b) Explain in detail about the following management systems *13,K2,CO3*
 (i) Configuration management,
 (ii) Event Correlation Techniques

14. a) Explain four critical aspects of a network management software tools in detail. *13,K2,CO4*

b) Explain the following network management systems *13,K2,CO4*
 (i) Two tier organization model.
 (ii) Three tier organization model.

15. a) Write a note on Web based Storage Area Network management. *13,K2,CO*

OR

b) Summarize the Web-Based Enterprise Management architecture, and list its applications. *13,K2,CO5*

PART - C (1 × 15 = 15 Marks)

16. a) Compile the difference between the data base of a network management system and its MIB. How do you implement each in a network management system? *15,K3,CO1*

OR

b) (i) Summarize in detail about list and ordered list in ASN.1 syntax. *15,K3,CO1*
 (ii) Identify the differences between them.
 (iii) Differentiate between list construction and repetitive construction using examples.