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[3664]-356 B.E. (IT)

SYSTEM OPERATIONS AND MAINTENANCE (2003 Course) (414448) Sem-2

Time: 3 Hours] IMax. Marks: 100 Instructions to the candidates: 1) Answer three questions from section-I and three questions from section-II. 2) Answers to the two sections should be written in separate books. Neat diagrams must be drawn wherever necessary. 3) Figures to the right indicate full marks. 4) Use of logarithmic table, slide rule, Mollier charts, electronic pocket calculator and 5) steam table is allowed. Assume suitable data if necessary. 6) SECTION - I O1)a) Classify telecom service providers. [5] b) With a neat diagram explain the organizational structure of an average telecom service provider. [5] c) Explain service delivery cycle with a neat diagram. [8] OR a) What is Telecommunicating Management Network? Explain with neat O_2 diagram the architecture of TMN. [9] b) List the key function of following support process [9] i) Customer care and billing process. Order processing and provisioning process. ii) What is LDAP? Explain the features and limitation of the same. 03) a) [8] b) Discuss differentiation of market segments. [8] OR a) With the neat diagram explain directory enabled networking. 04) [8] With respect to SNMP protocol explain [8] Traditional SNMP manage.

_	a)	Compare and contrast CMIP and SNMP. [8]
	b)	What is proactive management in problem handling process? [8]
		OR
Q6)	a)	What are sources of information of IP billing? List the challenges and solutions in IP billing. [8]
	b)	Explain (any 8) [8]
		i) TINA. ii) WAP. iii) CRM. iv) EDGE. v) CMIP. vi) B2C. vii) CDR. viii) GPS. ix) Non Source Routing. x) PVC. xi) Call Rating.
		xii) Resource Reservation Protocol.
		SECTION - II
Q7)	a)	Discuss the site design considerations for a service providers vibrant website. [9]
	b)	Customer care is a typical front office function - Explain. [9]
		OR
Q8)	a)	What SLA list some service dependent and service independent metrics? [9]
	b)	Explain Mediation and Mediation System. [9]
Q9)	a)	Draw a neat diagram for a generic architecture for micro payments. [8]
	b)	With a flowchart explain a typical service level management process.[8] OR
Q10)	a)	Explain the significance of periodic security audit for a telecommunication service provider. [8]
	b)	With a neat diagram give the overview of management operations support services. [8]

Q11) a) Write a job profile of typical network operations manages. [8]

b) Compare and contrast building teams and keeping teams. [8]

OR

Q12) a) Draw a neat diagram of business data collection, processing distribution architecture. [8]

b) List the importance of documentation and management tools in customer care and billing process.
 [8] Comment on the same using B2B or B2C application.

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