

P1106

[3864] - 423

B.E. (Information Technology)

SYSTEM OPERATIONS AND MAINTENANCE

(2003 Course) (414448)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates:

- 1) Answers to the two sections should be written in separate sheet.*
- 2) Use of logarithmic tables, slide rules and electronic pocket calculator is allowed.*
- 3) Neat diagrams must be drawn wherever necessary.*
- 4) Figures to the right indicate full marks.*
- 5) Assume suitable data, if necessary.*

SECTION - I

- Q1)** a) Service providers have been collecting experience with 3SSs for a long period of time, but message have never reached the right vendor. Why? What are the industry issues of OSS, BSS and MSS. [8]
- b) Explain new business opportunities for support system vendors when services are offered in combinations. [8]

OR

- Q2)** a) With suitable diagram explain organizational structure of an average telecommunication provider. [8]
- b) What are the strategic benefits offered after deployment of advanced support system? Explain with suitable example. [8]
- Q3)** a) Explain functions and protocols that support TMN services? [8]
- b) Explain the significant differences between TINA and TMN. Give suitable example to justify your difference. [8]

OR

- Q4)** a) What is LDAP? Explain various attributes of LDAP. [8]

- b) What are the goals of telecommunication service providers with middleware? When should middleware solutions be used in a telecommunication environment? [8]

Q5) a) With suitable diagram show the principle function of sales process. Show all input and output connections to the other processes and functions. Also identify the information sources for these processes. [10]

- b) Explain functional areas of call-rating and discounting process. [8]

OR

Q6) a) Explain various functions of the Customer Interface Management process? [10]

- b) What is IP Billing? Explain 4 categories of rating schemes. [8]

SECTION - II

Q7) a) Draw and explain structure of SNMP based management service. [8]

- b) How manual service processing and centralized service processing are different? Explain. [8]

OR

Q8) a) What is workflow? Explain the benefits of workflow applications? [8]

- b) Explain following principle functions of Service Configuration Process:-

- i) Align capacity (preorder)
- ii) CPE
- iii) Activate service [8]

Q9) a) Draw suitable diagram to explain overview of Management Operation Support System. [8]

- b) What is management framework? Explain its architecture with neat diagram. [8]

OR

Q10) a) What is TBS? How other sub-systems support a critical aspects of customer service provisioning process. [8]

- b) What is SiteScope? Explain the various monitors available with SiteScope. [8]

Q11) a) "The allocation of business process and support tools to people complicates the hiring process." Do you agree with the statement? What

are the various criteria for hiring network management staff? [8]

- b) What is the need of maintaining job profiles? What items job profiles should include? Explain the profile of network operations manager. [10]

OR

Q12)a) What is the need of maintaining job profiles? What items job profiles should include? Explain the profile of call center operator. [10]

- b) How knowledge management tools allow individual to query the enterprise Information base. Explain areas where service providers can be benefited from such tools. [8]

