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P2

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Q1: Define and explain in your own word. Radio network controller. Explain its main elements.

Answer: The Radio network controller (RNC) is a governing element in the UMTS radio access and is responsible for controlling the nodes B that are connected to it. The RNC carries out radio resources management, some of the mobility management functions and is the point where encryption is done before user data is sent to and from the mobile.

Elements of radio network controller

- Media gateway: a translation device or service that converts media streams b/w disparate telecommunication technologies such as POTS, SS7, etc
- UTRAN: is a collective term for the network and equipment that connects mobile handsets to public telephone.

Q2: What are the management Functional areas in a Telecom management network.

Ans: • Security management:

- monitor and control the availability of Security Facilities
- security of management
- Authenticate management Application and user.

• Performance management

- Determine network and system load
- Collection of performance information for capacity planning
- needs a lot of information. Care needed not to overload network with management traffic.

• Accounting management:

- Usage metering for charging and Billing
- set accounting limits
- combining resource usage for complex service

• Fault mangment

- Generation of Error notifications
- logging of notifications
- network Element Testing
- Requirement
 - Event based operation
 - generic set of Alarms
 - Testing Framework.

b = - Question Part b :

Explain how TMN is applicable in mobile networks?

Answer:

A TMN is a support network that interfaces to the telecommunication network to provide the means for transportations, maintenances, provisioning and management (OAM and P) information.



OS: operating systems

Question 3.

Explain Master plan For an information System:

Answer:

- Planning For information System:
- The complexity of the information resources environment suggests that planning is vital to success
- The plan describes the structure and content of the information system and how it is to be developed.
- The organization's strategy plan should be the basis for the MIS strategic

Plan:master plan

- Forecast of developments affecting plan:-
- Hardware software technological availability
- methodology changes should be forecasted
- Environmental developments such as