File: UMTS.pdf

Q:1) What are the salient features of GSM technology? Mention any TWO (2) unique benefits of GSM service?

Ans: pp(2-2) : good speech quality --- compatibility with ISDN.

pp(2-2) : Last line: One of the unique --- GSM operators worldwide.

pp(2-3) : One of the advantages --- transmits to the network.

Q:2) What are GSM network elements?

Ans: pp(2-3) : A GSM network consists of --- and subscription levels. pp(2-5)

Q:3) What is NSS? Why is it known as the HEART of GSM system? Draw a complete labeled diagram of GSM network?

Ans: pp(2-5) : Network and Switching subsystem (The network --- , and roaming).

Fig: 2-1 : GSM Network Elements

Q:4) What are TWO (2) modes of GSM data services? Which one is more efficient?

Ans: pp(2-7) : GSM Data Services (GSM networks handle --- circuit switching).

Q:5) What are the salient features of GPRS? Mention THREE (3) major benefits of GPRS?

Ans: pp(2-7) : General Packet Radio Service (The General Packet Radio System (GPRS) --- (3G) networks).

GPRS is the first step --- independent of infrastructure.

Benefits of GPRS: (The GPRS --- customer support).

Q:6) Wrie in detail about GPRS applications?

Ans: pp(2-8) : GPRS Applications (GPRS enables --- Advertising: --- in that mall).

Q:7) What is UMTS? Mention some of its services?

Ans: pp(2-28) : Universal Mobile Telecommunication System, UMTS services

(Complete page including above TWO (2) headings).

File: WN - IoT & FOG Computing - ASIMA.docx

Q:8) What is IoT paradigm? Discuss some issues faced by IoT applications?

Ans: pp(1) : Headings: 1) IoT, and, 2) Issues faced by IoT applications.

(Complete page including above TWO (2) headings).

Q:9) What are the limitations in Cloud Computing paradigm while dealing with IoT applications?

Discuss also Cloudlet and Mobile Cloud Computing (MCC) with its need and relevant limitations?

Ans: pp(2) : Headings: 1) Limitations in Cloud computing.., 2) Cloudlet.., 3) MCC..(Complete page including above THREE (3) headings).

Q:10) What are the characteristics of Fog Computing? Is it a Greener Computing platform, why?

Ans: pp(3) : Headings: 1) Fog Computing: Characteristics, and, 2) Fog Computing: A Greener Computing platform.

Q:11) What is the architecture of Fog Computing? Elaborate it in a pictorial manner as well?

Ans: pp(3-4) : Headings: 3) Fog Computing: Architecture (pp - 3)

Diagram (pp - 4): The Hierarchical Architecture of Fog Computing

File: ACN (Lec 7 and 8).pdf

Q:12) GSM stands for? What are its salient features till 2nd. Generation? User Identification (MSISDN) is composed of? Which security techniques are used for GSM security?

Ans: Lecture 7 - Slides no: 4, 7, 14.

Q:13) LTE stands for? How LTE can be defined by ITU-R set of standards for both: Mobile use and Stationary use? What are the main motives to launch LTE? Also, mention salient features of LTE?

File: ACN\_08.pdf

Q:14) Draw the architecture of WiMAX 802.16 technology only in pictorial manner w.r.t. following aspects:

N.B.: (No description in words is required)

a) Fixed WiMAX -- slide no: 9

b) Mobile WiMAX -- slide no: 10

c) WiMAX - integrated with Optical networks (for higher bit rates) -- slide no: 24

Answer: Plz find the attachment namely: Lecture - 8.

You'll find the diagrams on slide no: 9, 10, 24.

File: EMR Hazards.doc

Q:15) What is EMR hazard regarding networks having GSM/ LTE technology?

Files: 01 Lex-IoT.pdf, 03 Lec-IoT.pdf, question\_16.png

Q-16: What are the challenges for development of software in respect to IoT ?

Answer: Miss Sumbul had captured its photograph via her mobile from a compilation of a Research Paper(s), provided by me. (See in question\_16.png)

Q-17: What are the elements of IoT ? Mention some of its applications?

Answer: File: 01 Lec- IoT -- Slide no: 26, 27, 28, 29.

Q-18: What are the benefits of having IoT? Briefly review about the technological evolution from 1990 till 2020?

Answer: File: 03 Lec- IoT -- Slide no: 10, 11.