

Department of Computer Science and Engineering CS8601 – Mobile Computing

Unit II - MOBILE TELECOMMUNICATION SYSTEM

1.	Which of the following usually stores all user-related data that is also re	elevant to	GSM
	mobile systems?		

- a. VLR
- b. HLR
- c. CMR
- d. SIM

- a. TCP
- b. GPRS
- c. GSM
- d. UMTS
- 3. Which one of the following enables us to use the entire bandwidth simultaneously?
 - a. TDMA
 - b. CDMA
 - c. FDMA
 - d. All of the above.
- 4. In the Cellular Network, on which of the following, the cell's shape depends?
 - a. Political conditions
 - b. Social Conditions
 - c. Environment condition
 - d. None of the above

- 5. In which one of the following, the slow and fast hopping is used?
 - a) GSM
 - b) GPRS
 - c) FHSS
 - d) None of the above
- 6. When was the 2G communication introduced in the market?
 - a) 1982
 - b) 1984
 - c) 1986
 - d) 1988
- 7. Which one of the following is considered as the GSM supplementary service?
 - a) Emergency number
 - b) SMS
 - c) Call forwarding
 - d) All of the above
- 8. Which is considered as the heart of GSM?
 - a) Network and switching subsystem
 - b) operational subsystem
 - c) Base station sub system
 - d) None of the above.
- 9. The term "HLR" stands for
 - a) Home location register
 - b) Home live register
 - c) House location register
 - d) None of the above

10. B	SC comes under which of the following category?
a)	Operation
b)	Radio
c)	Network
d)	Mobile
11. lr	which one of the following, time is specifically divided into several time slots that are in
th	e fixed patterns?
a)	CDMA
b)	TDMA
c)	FDMA
d)	ALL OF THE ABOVE
12. H	ow many types of security services are provided by the GSM?
a)	1
b)	2
c)	3
d)	4
13. T	he term refers to transporting a mobile station from one base station to
	ner base station.
a)	ROAMER
b)	FORWARD CHANNEL
c)	HANDOVER
d)	MIN
14	is one of the responsibilities of MSC
a)	CONNECTING MOBILE TO PSTN
b)	CONNECTING TO BS TO MSC
c)	Add answer 3 optional
d)	Add answer 4 optional

15.	The	shape	of the	cellular	region	for	maximum	radio	coverage	is
	1110	oriapo	01 1110	Collaidi	rogion		maximi	Iddio	oovorago	10

- a) Circular
- b) Square
- c) Oval
- d) Hexagon

16. What does UMTS stands for?

- a. Universal Mobile Telephone System
- b. Ubiquitous Mobile Telephone System
- c. Ubiquitous Mobile Telemetry System
- d. None of the above

17.	UMTS	uses	medium	access	scheme.

- a. CDMA
- b. FDMA
- c. SDMA
- d. TDMA

18. What are the information present in the GPRS QoS profile?

- a. Service Precedence
- b. Delay Class
- c. Data throughput
- d. All the above

19. GPRS context consists of

- a. Ciphering Key Sequence Number
- b. Temporary Logical Link Identity
- c. Status of the MS
- d. GTP

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20.	Which of the following is the world's first cellular system to specify digital modulation and
	network level architecture?
	a) GSM
	b) AMPS
	c) CDMA
	d) IS-54
21.	UMTS is also known as
	a) IS-95
	b) GPRS
	c) CdmaOne
	d) W-CDMA
22.	Handover between the Node B's in UMTS is called
	a. Hard handover
	b. Soft handover
	c. Intersystem handover
	d. None of the above
23.	Hard handover occurs in mode only
	a. TDD
	b. FDD
	c. W-CDMA
	d. None of the above
24.	manages the switching function in GSM.
	a) BSS
	b) NSS
	c) OSS

d) MSC

- 25. Which of the following memory device stores information such as subscriber's identification number in GSM?
 - a) Register
 - b) Flip flop
 - c) SIM
 - d) SMS

ANSWERS

- 1. d. SIM
- 2. b. GPRS
- 3. b. Social conditions
- 4. b. CDMA
- 5. c. FHSS
- 6. d. 1988
- 7. c. Call forwarding
- 8. a. Network and switching subsystem
- 9. a. Home location register
- 10. b. Radio
- 11. b. TDMA
- 12. c. 3)
- 13. c. HANDOVER
- 14. a. CONNECTING MOBILE TO PSTN
- 15. d. Hexagon
- 16. a. Universal Mobile Telephone System
- 17. a. CDMA

- 18. d. All the above
- 19. c. Status of the MS
- 20. a. GSM
- 21. d. W-CDMA
- 22. c. Soft handover
- 23. a. TDD
- 24. b. NSS
- 25. c. SIM