

Roll Number

**KGISL INSTITUTE OF TECHNOLOGY
DEPARTMENT OF INFORMATION TECHNOLOGY**

CLASS:	: III B.Tech IT	MAX MARKS	: 75
SEMESTER:	: VI	DURATION	: 02:00 Hrs
SUBJECT:	: Mobile Computing	CODE	: IT6601
COURSE NO	: C311	DATE	: 25.02.2019
ACADEMIC YEAR	: 2018 – 19 (EVEN)	EXAM	: INT TEST 2

PART – A (10 X 2 = 20 Marks)

I ANSWER ALL QUESTIONS

- What are all the services available in GSM?
- What are the main elements of UMTS?
- What is GPRS?
- What are all the functions provided by RNS in UMTS?
- What is Bearer Service in GSM?
- List the characteristics of MANET?
- Compare MANET vs VANET.
- Compare Proactive vs Reactive protocols.
- What is Distance Vector protocol?
- What is routing?

BT Level	Course Outcome
R	C311:3
R	C311:3
U	C311:3
R	C311:3
R	C311:3
R	C311:4
U	C311:4
U	C311:4
R	C311:4
U	C311:4

PART – B (3 X 13 = 39 Marks)

II ANSWER ALL QUESTIONS

11. (a) (i) Explain about GSM architecture in detail.

13 R C311:3

(OR)

- (b) (i) Explain about GSM Security in detail.

13 R C311:3

12. (a) (i) Explain about UMTS architecture in detail.

13 R C311:3

(OR)

- (b) (i) Explain about handover procedures of GSM and UMTS.

13 R C311:3

13. (a) (i) Explain the design issues of MANET routing protocols in details.

13 U C311:4

A

(OR)

- (b) (i) Explain about various security attacks on MANET.

13 U C311:4

PART – C (1 X 16 = 16 Marks)

III ANSWER ALL QUESTIONS

- 14 (a) (i) Explain in detail about GPRS architecture.
(ii) Give a short note on VANET.

12 U C311:3
4 U C311:4

COURSE OUTCOMES	
C311:1	Understand the basic concepts of mobile computing.
C311:2	Be familiar with the network protocol stack.
C311:3	Learn the basics of mobile telecommunication system.
C311:4	Be exposed to Ad-Hoc networks.
C311:5	Gain knowledge about different mobile platforms and application development.

BLOOMS TAXONOMY LEVELS	
R	Remember
U	Understand
AP	Apply
AN	Analyze
E	Evaluate
C	Create

Staff I/C(s)

HOD

Principal

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PART – A (10 X 2 = 20 Marks)

I ANSWER ALL QUESTIONS

1. What are all the services available in GSM?	BT Level	Course Outcome
2. What is UMTS?	R	C311:3
3. What is GPRS?	U	C311:3
4. What are all the functions provided by RNS in UMTS?	R	C311:3
5. Name the security services offered by GPRS?	R	C311:3
6. List the characteristics of MANET?	R	C311:4
7. Compare MANET vs VANET.	U	C311:4
8. Compare Proactive vs Reactive protocols.	U	C311:4
9. What is Link State Routing protocol?	R	C311:4
10. Why Broadcast communication wont supported by MANET?	U	C311:4

PART – B (3 X 13 = 39 Marks)

II ANSWER ALL QUESTIONS

11. (a) (i) Explain about GSM architecture in detail.	13	BT Level	Course Outcome
(OR)		R	C311:3
(b) (i) Explain about GSM Security in detail.	13	R	C311:3
12. (a) (i) Explain about UMTS architecture in detail.	13	R	C311:3
(OR)			
(b) (i) Explain about handover procedures of GSM and UMTS.	13	R	C311:3
13. (a) (i) Explain about DSDV and DSR protocols of MANET in detail.	13	U	C311:4

B

(OR)

(b) (i) Explain about various security attacks on MANET.	13	U	C311:4
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PART – C (1 X 16 = 16 Marks)

III ANSWER ALL QUESTIONS

14 (a) (i) Explain in detail about GPRS architecture.	12	BT Level	Course Outcome
(ii) Give a short note on VANET.	4	U	C311:4

COURSE OUTCOMES	
C311:1	Understand the basic concepts of mobile computing.
C311:2	Be familiar with the network protocol stack.
C311:3	Learn the basics of mobile telecommunication system.
C311:4	Be exposed to Ad-Hoc networks.
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