## University of Mumbai

Program: Computer Engineering Curriculum Scheme: Rev2016 Examination: BE Semester VII

Course Code: CSC702 and Course Name: Mobile Communication and Computing

Max. Marks: 80

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Algorithm A8 is used for	
Encryption	
Decryption	
Authentication	· · · · · · · · · · · · · · · · · · ·
Generation of a cipher key	<del></del>
Registration uses protocol over IP	
TCP	
IP	
ICMP	
UDP .	
A GSM cell can measure between some 100 m and depen	ding on
the environment (buildings, open space, mountains etc.)	
35 km	
35m	
100m	
350km	
is very small compared to the data transmission, so the proba	bility of a
collision is must lower.	or u
CTS	
RTS	
ETS december 1991	
PTS	
	Decryption Authentication Generation of a cipher key  Registration uses protocol over IP TCP IP ICMP UDP  A GSM cell can measure between some 100 m and dependent the environment (buildings, open space, mountains etc.) 35 km 35m 100m 350km  is very small compared to the data transmission, so the probacollision is must lower. CTS RTS ETS

Q2.	Solve any Two Questions out of Three 10 marks each
(20 Marks)	
$\mathbf{A}$	Differentiate between DSSS and FHSS
В	What are the different types of Handovers supported by GSM? Explain in detail.
C	Draw a high-level architecture of LTE. Explain in short, the functions of EPC component

Q3. (20 Marks)	Solve any Two Questions out of Three	10 marks each
Α	Draw a system architecture of GPRS. What is the GGSN Components?	e role of SGSN, GR and
В	What is Snooping TCP? List advantages and disaTCP.	advantages of Snooping
C	What do you mean by Self Organizing Network types of SON.	orks? Explain different

Q4.	Solve any Two Questions out of Three 10 marks each	
(20 Marks)		8
A	Explain Piconet and scatternet with respect to Bluetooth protocol.	
В	Discuss how tunneling work for mobile IP using IP in IP	
	Encapsulation.	
С	Discuss the functions of authentication and encryption in GSM? How	
	is system security maintained?	