



**9635 – STELLA MARY'S COLLEGE OF ENGINEERING**  
**104-DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**MODEL EXAM (2022 – 2023 EVEN)**

**III Year / VI Semester**  
**CS8601-MOBILE COMPUTING**

**Date & Time: 22/5/2023 & 9:30 AM to 12:30 PM**

**Max. : 100 Marks**

**Note:**

- Write the examination using blue or black pen
- Draw neat sketch with pencil (if necessary)
- Use tables or charts (if necessary)
- Answer all questions

Q.No.	Question	Bloom's Taxonomy Level	CO
<b>Part – A</b> <b>(Each Question carries 2 Marks)=5*2=10 marks</b>			
1.	What is Mobile computing?	Remembering	(CO1)
2.	Compare the generations of mobile communication technologies.	Understanding	(CO1)
3.	Classify the functions of HLR and VLR.	Understanding	(CO2)
4.	List the possible handover scenarios in GSM.	Remembering	(CO2)
5.	Define COA.	Remembering	(CO3)
6.	Compare Proactive and Reactive Routing Protocols.	Understanding	(CO3)
7.	Compare WDP and WTLS.	Understanding	(CO4)
8.	List the functions of WTLS.	Understanding	(CO4)
9.	Compose the solutions for security issues in mobile OS.	Evaluating	(CO5)
10.	Distinguish between mobile OS with Traditional OS	Remembering	(CO5)
<b>Part – B</b> <b>(Answer for each question carries 13 Marks)5*13=65 marks</b>			
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Q.No.	Question	Bloom's Taxonomy Level	CO
11.	a) Compare and contrast SDMA, TDMA, FDMA and CDMA schemes.	Understanding	CO1
	(OR)		
	b) Explain the different categories of MAC protocols in detail.	Understanding	CO1

12.	a) Explain the GPRS architecture in detail.	Understanding	CO2
	(OR)		
	b) Explain about the UTRAN interface of UMTS in detail .	Understanding	CO2
13.	a) Demonstrate the operation of DHCP with a neat diagram and explain its protocol architecture.	Evaluating	CO3
	(OR)		
	b)(i) Explain in detail about the architecture of VANET. (ii) Explain the design issues in MANET protocols.	Evaluating	CO3
14.	a )(i) Explain in detail about Mobile TCP. (7) (ii) Explain the TCP approaches used in Mobile Networks.(6)	Evaluating	CO5
	OR		
	b )(i) Illustrate the importance of WAP in Mobile networks.(7) (ii) Explain the architecture of WAP and its working. (6).	Evaluating	CO5
15.	a )Elaborate various applications of M-Commerce. (13)	Creating	CO5
	OR		
	b) (i) List and discuss the components of mobile operating system.(7) (ii) Discuss about Android SDK. (6)	Creating	CO5
<b>Part – C</b> <b><u>(Each Question carries 15 Marks)=1*15=15 marks</u></b>			
16.	(a) What role does initiator and responder play in the transport layer of WTLS? Explain in detail.	Evaluating	CO3
	(OR)		
	(b ) Explain wireless application protocol in different layers.	Evaluating	CO3