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		L	Question Paper Code: 10895	
		N	A.C.A. DEGREE EXAMINATIONS, APRIL/MAY 2019.	
			Fourth Semester	
			MC 5402 — MOBILE COMPUTING	
			(Regulation 2017)	
Tim	e:Th	ree ho	ours Maximum: 100 ma	arks
			Answer ALL questions.	
			PART A — $(10 \times 2 = 20 \text{ marks})$	
1.	Stat	e any	two important differences between GSM and CDMA.	
2.	Diffe	erenti	ate HLR and VLR.	
> 3.	Give the essential uses of piconet.			
4.	Men	tion f	ew security related issues in bluetooth.	
5.	Define Tunneling.			
6.	What are the design goals of Mobile IP?			
7.	Nan	ne few	libraries used in Android.	
8.	Give	exan	apples for intents and activities in android.	
9.	Stat	e the	various adapter views in android.	
10.	Nan	ie the	phases involved in service lifecycle.	
			PART B — $(5 \times 13 = 65 \text{ marks})$	
11.	(a)	(i)	Compare the features of 2G, 3G and 4G networks.	(6)
		(ii)	With a help of a neat diagram, explain the architecture of GSM.	(7)
			Or	
	(b)	(i)	Name the layers of GSM protocol architecture. Explain diagram.	with (6)
		(ii)	Discuss about the components of GPRS architecture.	(7)

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10 (2)	D. C. 1	
12. (a) (i)	Brief about the architecture of IEEE 802.11 with the help of the diagram.	he (6)
(ii)	What are the threats for WLAN? Explain its security measures. (2000
	Or	
(b) (i)	Describe the functionalities of each layer involved in Bluetoo	th
		(6)
(ii)	With the help of a neat diagram, explain the WAP architecture. ((7)
13. (a) (i)	Explain how packet delivery is handled in mobile IP. ((6)
(ii)	With a neat diagram explain the architecture of TCP/IP.	7)
	Or .	
(b) (i)	Discuss about various encapsulation techniques in mobile IP. ((6)
(ii)		nd (7)
14. (a) (i)	Explain the various components of Android architecture framewor with a neat diagram.	rk (6)
(ii)	How do you link activities with intent? Give example.	7)
	Or	
(b) (i)	What are the steps involved in creating Android Activity. Explain.	
		(6)
(ii)	Describe the phases involved in Android Application life cycle. ((7)
15. (a) (i)	Brief about various methods used in location based services. ((6)
(ii)	Explain in detail about Android Services.	(7)
	Or	
(b) (i)	Explain how storing and retrieving of data in handled in Android.	
(ii)	Develop a simple android application to perform arithmet	(6)
(11)		(7)
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