	Q. Code: 734538										38		
Reg. No.													

## **B.E. / B.TECH. DEGREE EXAMINATIONS, MAY 2023**

Fifth Semester

## **IT18502 – MOBILE COMPUTING**

(Common to CS & IT)

(Regulation 2018)

		(Regulation 2016)				
TIM	TIME: 3 HOURS		MARK	S: 100		
COURS OUTCOM CO 1	1ES	STATEMENT erpret the working characteristics and limitations of mobile hardware	devices	RBT LEVEL S 3		
	inc	luding their user-interface modalities.				
CO 2		oose the suitable technologies for appropriate mobile communication		3		
CO 3		mmarize the various wireless LAN technologies.		5		
CO 4		sess the development environment used in mobile devices		5		
CO 5	De	velop applications that are mobile-device specific		3		
		PART- A(10x2=20Marks)				
		(Answer all Questions)				
			CO	RBT LEVEL		
1.	State fe	w applications of ubiquitous computing.	1	1		
2.	Interpre	et the need of dialogue control with the suitable examples.	1	3		
3.	Differentiate active RFID and passive RFID.					
4.	Compa	re between the term 4G and 5G.	2	3		
5.	5. Outline the role of MSRN in call routing in GSM.					
6.	<b>6.</b> List the different types of Wireless LAN.					
7.	7. List the important features of Windows CE OS?					
8.	Why kernel mode is said as memory resident part? Explain it.					
9.	<b>9.</b> How attacks on static assets are categorized?					
10.	Describ	e about SIP.	5	1		
		DADT D (5 14 50M L )				
		PART- B (5x 14=70Marks)				
		Marks	s CO	RBT LEVEL		
11. (2	a) (i)	Explain ICAP functionality with a neat diagram. List its future (8) services.	1	3		
	(ii)	Explain the various contexts in mobile computing. (6)				

	(OD)				Q. Code: 734538			
<b>(b</b> )	Und	(OR) er what circumstances, computation is required in mobile	(14)	1	3			
	appl	ication? Draw and explain the architecture of mobile computing.						
12. (a)		struct the Architecture of GSM and explain its working principle a neat diagram.	(14)	2	3			
		(OR)						
<b>(b</b> )	) Cons	struct the Architecture of GPRS and explain its working principle	(14)	2	3			
	with	a neat diagram.						
13. (a)	(i)	Explain the call establishment procedure in Intelligent Network.	(7)	3	2			
	(ii)	Illustrate the Network Architecture of SS7 with a neat diagram.	<b>(7)</b>					
		(OR)						
(b)		trate the components and working principle of WAP architecture a neat sketch.	(14)	3	2			
14. (a)	<b>14. (a)</b> Deduce the steps to develop a small mobile application to read student information and display the same using Android OS.				3			
		(OR)						
<b>(b</b> )	) Expl	(14)	4	3				
15. (a)	(i)	Evaluate the techniques to overcome security issues in mobile computing	(8)	5	3			
	(ii)	Point out the differences between H.323 and SIP.	(6)					
		(OR)						
<b>(b</b> )	(i)	Evaluate the need for CODECs for mobile application.	(7)	5	3			
	(ii)	Point out the need of short message service and explain its type.	(7)					
		<b>PART-</b> C (1x 10=10Marks)						
		(Q.No.16 is compulsory)						
			Marks	CO	RBT LEVEL			
16.	Justify	CSMA/CD leads to hidden terminal and exposed to terminal	(10)	3	5			
	problem	m? Provide the suitable solution for the same.						