Nirma University

Institute of Technology

Semester End Examination (IR), December 2023 B.Tech. in Computer Science & Engineering, Semester VII 2CSDE76 MOBILE OPERATING SYSTEMS

Roll Exa	•	Supervisor's Initial With Date	A18/10	/
Time: 3 Hours			Total Marks: 100	
Insti	Tuctions: 1. Attempt all questions. 2. Figures to right indicate full ma 3. Draw neat sketches wherever n 4. Assume suitable data wherever indicate it.	necessary.	ly	
Q.1	SECTION - I Answer the following questions:	Í.	Titl	[14]
A CO2,BL5	Write the code snippet in Android to show	. Enter 5 integer in the second activity	veen two numbers , second	[07]
B CO 2,BL 4	Illustrate the lifecycle of Android Activity vexplain the role of Manifest file with suitable		ım. Also,	[07]
Q.2	Do as directed:			[16]
A CO2,BL3	Discuss Android platform architecture w significance of Android runtime in architec			[08]
B CO4,BL5	Write the code snippet in Android for a view1 to list out some items on screen item, system should display complete infoitem in list view2 in the same screen. Also of the items from the list view1.	and by selecting any primation about that	y of the selected	[08]
Q.3	Do as directed:			[20]
A CO4,BL3	Discuss any four mobile device securi- explain risk mitigation technique of it.	ty vulnerabilities ar	ıd also,	[08]
B CO5,BL5	Write the code snippet in swift languatemonstrate the use of button and lab appropriate message should be displayed OR	el. While tapping a	button,	[12]
B CO5,BL5	Write a code snippet in iOS to design the	e user registration fo	rm. This [[12]

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form should make use of minimum four different GUI components. Also, apply required validations.

Q.4	Answer the following questions:	
_		[16]
A CO5,BL3	Illustrate iOS architecture with suitable diagram. Also, explain the security features of iOS.	[80]
	OR	
A CO5,BL4	How does Xcode work when we build the iOS app project. Justify with suitable example.	[08]
B CO5,BL5	Illustrate instrumented test and local test for Android device. How user performs unit test in Android project in real time application development?	[08]
Q.5	Answer the following questions:	[16]
A CO2,BL3	Write a code snippet in Android to design a camera application which demonstrate how to capture an image.	[08]
B CO4,BL4	What is Broadcast Receiver? Demonstrate the use of broadcast receiver	[80]
Q.6	Do as directed:	[18]
A CO5,BL3	Discuss the functionality of DFWMAC-DCF with RTS/CTS extension using suitable diagram.	[80]
B CO5,BL3	Discuss the following issues in wireless network with suitable diagram. (i) Hidden and exposed terminals (ii) Near and far terminals	[06]
C CO1,BL3	Discuss security and other features of various operating systems like Linux, iOS, Palm OS and Widows. OR	[04]
C CO1,BL3	Differentiate between for following task	[04]
- 5.,550	(i)services and activity	
	(ii) Infrastructure network and ad-hoc networks	