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END SEMESTER REGULAR / RETEST EXAMINATION, JULY - 2023

Branch: Computer Engineering

Semester: 6th

Subject Code: CO-601 (New)

MOBILE COMPUTING

Full Marks - 70

Time - Three hours

The figures in the margin indicate full marks for the questions.

Instructions:

- (i) All questions of PART A are compulsory.
- (ii) Answer any five questions from PART B.

PART – A Marks – 25

Fill	in the blanks: 1×10=10
(a)	Mobile communication network is also called
	asnetwork.
(b)	GPRS stands for

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(c) Visitor location register is integrated with	2. Write True or False : 1×10=10
(d) is the protection of smart-phones, phablets, tablets, and other portable tech-	(a) The function of the GPRS register (GR) is to store all GPRS-relevant data.
devices, and the networks to which they connect to, from threats and bugs.	(b) Mobile Terminated Call (MTC) is a situation in which a station calls a mobile station.
(e) Try not to keep passwords,	(c) Satellite-based cellular phones are also an example of an infrastructure-based networks.
especially fingerprint for your smart-phone, because it can lead to physical hacking if you're	(d) Android is built upon the Java micro edition (J2ME) version of Java.
not aware or asleep.	(e) 5.1 android version is named Jelly Bean.
(f) The frequency range for satellite communication is (g) Which virtual machine is used by the Android	(f) To make antenna more directional, either its size must be increased or the frequency of its transmission must be increased.
operating system?	(g) On Create () method is the first callback method that is invoked by the system during an activity
(h) We require an AVD to create an emulator. What	life-cycle.
does AVD stand for?	(h) There can be only one running activity at a given time.
(i) During an Activity life-cycle, what is the first callback method invoked by the system?	(i) Google does not licensed any Proprietary apps.
(j) The full form of APK is	. (j) MIMO is a smart antenna technology.
1/CO-601/MC/6th Sem(N) (2)	61/CO-601/MC/6th Sem(N) (3) [Turn over

(a) Which of the following is not an example of wireless communication?	following code characteristics
(i) Wi-fi (ii) Zig-bee	(i) CDMA (C
(iii) Landline (iv) Walkie-Talkie	(ii) GSM (G communic
(b) Which of the following specifies a set of Media	(iii) GPRS (Ge
Access Control (MAC) and physical layer	(iv) None of the
specifications for implementing WLANs ? (i) IEEE 802.11 (ii) IEEE 802.2	(e) Android is shipp databases ?
(iii) IEEE 802.3 (iv) IEEE 802.5	(i) Oracle (iii) Apache
(c) stores the data related to the user and	(III) Apacile
is relevant to GSM (Global System for Mobile	PA
communication) mobile systems as well.	Mar
(i) SIM (Subscriber Identity Module)	4. (a) Explain the Communication.
(ii) CMR (Customer-Managed Relationship)	
(iii) VLR (Visitor Location Register)	(b) State the difference Communication.
(iv) None of the above	(c) Define CDMA.
51/CO-601/MC/6th Sem(N) (4)	61/CO-601/MC/6th Sem(N)

3. Choose the correct answers:

(d)	For the transmission purpose, which of the following code is applied because of its special	
	characteristics ?	
	i) CDMA (Code-Division Multiple Access)	
	ii) GSM (Global System for Mobile	

- (iii) GPRS (General Packet Radio Service)
- (iv) None of the above
- (e) Android is shipped with which of these built-in databases?
 - (ii) MySQL
 - (iv) SQLite.

PART – B Marks – 45

- 4. (a) Explain the evolution of Mobile Communication.
 - (b) State the difference between Wired and Wireless Communication. 3

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(5)

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5. (a) Draw the Three Tier architecture of Computing.	Mobile 3
(b) What are the Threats and Issues in I Computing?	Mobile 3
(c) What are the Modes of Communication	
6. (a) What are the requirements must be cons for mobile computing environment?	idered
(b) State the characteristics of Mobile Comp	uting.
(c) What are the different types of Middlewa	3
(a) What are the types of multiplexing op available to communication channels? (b) What are the different types of Networ Devices?	tions 3 king
(c) State the different types of protocol use Mobile Computing?	d in
8. (a) Describe the working mechanism of Satell Write advantages and disadvantages.	lite.
(b) What are the Different Earth Orbit Satellite	
(c) What are the Transmission Limitation?	3
61/CO-601/MC/6th Sem(N) (6)	,

(a)	What are the Different Version of Android?	3
(b)	Draw the Architecture of Android ?	3
(c)	Write any 5 Android UI Control ?	3
(a)	How to setup Android for Eclipse IDE ?	3
(b)	What are the Activity Lifecycle methods?	3
(c)	Write any 5 Emulator Commands.	3
. (a) Difference between Explicit and I		cit
	Intents.	2
(b)	Define Manifest and Padding ?	2
(c)	Write different types of Layout used wh	nile
	developing an Android App?	5
	(b) (c) (a) (b) (c) (a)	 (b) Draw the Architecture of Android? (c) Write any 5 Android UI Control? (a) How to setup Android for Eclipse IDE? (b) What are the Activity Lifecycle methods? (c) Write any 5 Emulator Commands. (a) Difference between Explicit and Impli Intents. (b) Define Manifest and Padding? (c) Write different types of Layout used when the Architecture of Android?

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