END SEMESTER EXAMINATION 2021
Semester: 6th
Subject code: CO-601
Subject: Mobile Computing
Full Marks: (part A-10 + Part B-46)=56
Duration:2 hour 30 minutes

PART-A		
MARK-10		
Questions no.	Questions	marks
Question 1	**Fill up the blanks**	1x4=4
1a	A satellite signal transmitted from a satellite transponder to earth's station is_____	
1b	_____is the scheme in which allocation and reuse of channels throughout a coverage region is done	
1c	_____manages communication between GSM and other networks	
1d	Soft handoff is also known as_____	
2	**Choose the correct answer**	1x3=3

2a	Which mobile communication protocol allows the users to move from one network to another with the same IP address?
	    i) SCTP ii) Mobile IP
	    iii) MAHO iv) HTTP	

2b	Which increases number of base station to increase the capacity?
	    i) Cell splitting ii) Sectoring
	    iii) Repeaters iv) Scattering	

2c	Which is not a standard of 3G ?
	    i) UMTS ii) Cdma2000
	    iii) TD-SCDMA iv) LTE	

2d	**Write true or false:**	1x3=3
2e	Bandwidth of FDMA channel is narrow.	
	Kernel level security is not provided in Android.	

	SCTP protocol transfer packets in a GPRS core network.	

PART-B
MARKS-46

Questions no.	Questions	Marks
3(a)	What are its advantages & disadvantages of Mobile Computing?	3
3(b)	Explain functions performed by MSC in GSM architecture	3
3(c)	Define the properties of cell structure.	3
3(d)	What is the use of uplink and downlink frequencies?	3
3(e)	Write briefly about Security services of GSM.	3
4(a)	What are the challenges in Mobile Communication?	4
4(b)	Write short notes on Android SDK.	4
4(c)	Explain Android platform with its features.	4
4(d)	Write briefly about Mobile communication via satellite	4
5(a)	Explain packet delivery mechanism in mobile IP network with suitable diagram.	5
5(b)	Define Handoff. Write about various types of handover in GSM. What are the reasons for handover?	5
5(c)	Describe GSM architecture and its services in details.	5

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