This question paper contains 2 printed pages]

## AA-26-2019

## FACULTY OF SCIENCE

## **B.Sc.** (Fifth Semester) EXAMINATION OCTOBER/NOVEMBER, 2019

(CBCS Pattern)

## COMPUTER SCIENCE

(Mobile Communication)

(Elective)		
(Wednesday, 16-10-2019)	Time: 10.00 a.m. to 1.00 p.m.	
Time—3 Hours	Maximum Marks—75	
N.B. :— (i) All questions are compulsory.		
(ii) Figures to the right indicate	full marks.	
1. Attempt any five of the following:	15	
(a) Market for Mobile Communication		
(b) Planning a cellular system		
(c) SDMA		
(d) TETRA		
(e) Advantages of WLANs		
(f) Encapsulation in mobile IP	2).	
(g) Logical channels in GSM.		
2. Attempt any two of the following:		
(a) Discuss a short history of wireless	s communication.	
(b) Explain a simplified reference mod	del of wireless communication.	
(c) Explain various applications of wi	reless communication.	
Attempt any two of the following:		
(a) Explain basic cellular system in d	letail.	
(b) Explain planning of a cellular sys	stem.	
(c) Explain performance criteria of ce	ellular system.	
47,77,07,47,68,82,00,00,00,00,00,00,00,00,00,00,00,00,00	Р.Т.О.	

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4.	Attempt any two of the following:	10
	(a) Explain hidden and enposed terminals problem in d	etail.
	(b) Explain TDMA in detail.	
(	(c) Explain FDMA in detail.	
5.	Attempt any two of the following:	10
	(a) Explain different services of GSM in detail.	
	(b) Explain the system architecture of DECT.	
(c)	(c) Explain GSM with suitable system architecture.	\$ \\ \alpha \\ \
6.	Attempt any two of the following:	10
	(a) Explain IEEE 802.11 WLAN in detail.	
	(b) Explain infrared Vs radio transmission in detail.	
	(c) Explain Bluetooth in detail.	
7.	Attempt any two of the following:	10
	(a) Discuss mobile IP in detail.	
	(b) Explain Rooting in mobile Ad-hoc networks.	
	(c) Explain Dynamic host configuration protocol in deta	il.