LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



M.C.A.DEGREE EXAMINATION - COMPUTER APPLICATIONS

FOURTH SEMESTER - **NOVEMBER 2018**

16PCA4MC02- MOBILE COMPUTING

LUCEAT LUX VESTRA	16PCA4MCU2- MOBILE COMPUTII	NG
Date: 29-10-2018 Time: 01:00-04:00	Dept. No.	Max. : 100 Marks
	SECTION-A	
ANSWER ALL THE Q	$(10 \times 2 = 20)$	
1. What is Pervasi	ive Computing?	
2. What are comm	nunication gateways?	
3. Define Handov	er.	
4. What is DECT	?	
5. What is BRAN	?	
6. State any two a	dvantages of Radio transmission.	
7. What is the role	e of Home Agent?	
8. What is TTL?		
9. What are ACID	Prules?	
10. State any two fe	eatures of Symbian OS.	
	SECTION-B	
ANSWER ALL THE Q	(5 X 8 = 40)	
11. a) List out some of the	e applications and services in mobile computing.	
	(OR)	
b) What are the	design considerations for mobile computing?	
12. a) Explain the archited	cture of GSM.	
(0.	R)	
b) Discuss the s	security features of GSM.	

13. a) Describe about the Infrastructure and Adhoc Networks.	
(OR)	
b) Explain the architecture of Bluetooth.	
14. a) Discuss in brief about the Registration procedure in Mobile IP.	
(OR)	
b) Explain about the selective retransmission in TCP.	
15. a) Explain the architecture of Query Processing.	
(OR)	
b) Describe about the ADO.Net transactional model.	
SECTION-C	
ANSWER ANY TWO QUESTIONS:	$(2 \times 20 = 40)$
16. (a) Describe about the three tier architecture of mobile computing.	(10)
(b) Elaborate about the network operations of GPRS.	(10)
17. (a) Explain the protocol architecture of IEEE 802.11.	(10)
(b) Explain the functioning of Transaction Oriented TCP.	(10)
18. (a) Describe the steps involved in data recovery process.	(10)
(b) Explain the features of Power Aware Mobile Computing.	(10)
