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Question Paper Code: 91773

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2019 Sixth Semester

Information Technology IT6601 – MOBILE COMPUTING

(Common to Computer Science and Engineering)

(Regulations 2013)

(Also Common to PTIT6601 – Mobile Computing for B.E. (Part-Time) – Fifth Semester – Computer Science and Engineering – Regulations – 2014)

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions

PART - A

 $(10\times2=20 \text{ Marks})$

- 1. Define mobile computing.
- 2. What are the issues present in MAC?
- 3. What is the need for Mobile IP?
- 4. What is Route Optimization?
- 5. Name the teleservices provided by GSM.
- 6. In which way GPRS is better than GSM?
- 7. Why routing in a MANET a complex task?
- 8. Distinguish VANET and MANET.
- 9. What are the special constraints and requirements of Mobile O/S?
- 10. What is M-commerce?

PART – B

(5×13=65 Marks)

- 11. a) i) Explain with a neat diagram the structure of Mobile Computing.
- (8)
- ii) Distinguish between Mobile Computing and Wireless Networking.

(5)

(OR)

b) List different fixed assignment scheme with a neat diagram.

(13)



12.	. a)	What problems would occur if the traditional TCP is used in mobile wireless environments? Discuss how TCP can be adapted to work efficiently in mobile network environment.		
		(OR)		
	b)) What are the main functions of DHCP? Why is DHCP needed? Can it be used when nodes are mobile? Explain your answer.	(13)	
13.	a)) What is handoff? Explain the GSM architecture in detail.	(13)	
		(\mathbf{OR}) is the group of the arranging tells of the \mathbf{OR}		
14.		Briefly explain why the traditional packet routing protocols for wired networks cannot be used straight way in a MANET. Discuss how the routing protocols	(13)	
+ 11		for traditional wired networks have been extended to work in a MANET.	(13)	(
1,84°.	Ferrir	Explain the factors that make mobile ad-hoc networks more vulnerable to security attacks compared to the traditional networks. Also explain the major types of security attacks that are possible in a mobile ad-hoc network. How can each of these types of attacks be overcome?	(13)	
15.	a)	Explain various operating systems for mobile computing.	(13)	
		(OR)		
	b)	i) Write detailed notes on applications of mobile commerce.	(8)	
		ii) Explain with neat diagram the structure of Mobile Commerce.	(5)	
		PART – C (1×15=15 Mar	ks)	
16.	a)	Discuss briefly with an example about the process followed in Mobile Payment system with different payment schemes when a customer places an order to purchase an item from the trader.	(15)	(
		(OR)		
		Discuss with neat diagram how a packet is delivered from a mobile node to another mobile node without losing its information during mobility of the nodes.	15)	