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Question Paper Code: 41298

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018

Sixth Semester
Information Technology
IT 6601 – MOBILE COMPUTING
(Common to Computer Science and Engineering)
(Regulations 2013)

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions

PART - A

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

- 1. Distinguish between mobile computing and wireless networking.
- 2. List the issues of wireless MAC.
- 3. What is the purpose of DHCP?
- 4. What is the purpose of agent solicitation message?
- 5. What is frequency range of uplink and downlink in GSM network?
- 6. What are the informations are stored in SIM?
- 7. Compare VANET with MANET.
- 8. Differentiate cellular with adhoc networks.
- 9. What is M-Commerce? List its disadvantages.
- 10. What are the constraints of mobile device OS?

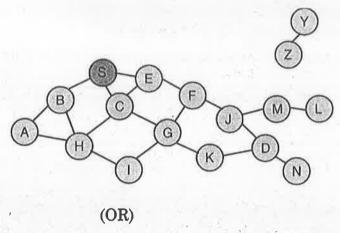
			PART – B (5×13=65	Marks
11.	a)	i)	Discuss in detail the structure of a mobile computing application.	(6)
			Apply mobile computing to design Taxi dispatcher and monitoring service. Explain the components in detail.	(7)
			(OR)	
	b)	i)	List the characteristics of mobile systems.	(6)
		ii)	What is CSMA? What are the categories of CSMA? Explain their work with advantages and disadvantages.	
12.	a)		Explain Indirect TCP(I-TCP) with the help of a suitable schematic diagram.	(8)
		ii)	Explain the Agent Discovery Process in Mobile IP.	
		NO.	(OR)	(5)
	b)	i)	Describe how mobile TCP improves TCP efficiency for mobile network	0
			How does mobile TCP maintain end to end semantics?	(8)
		ii)	Briefly explain about the adaptation of TCP window.	(5)
13.	a)	Wri	ite in detail about the various types of handover in GSM. Also discuss	the
		CIIII	eline diagram of the Intra MSC handover.	(13)
			(OR) The second revisit His Research to the segrency stell at a	
	b)	Exp	plain in detail network architecture of UMTS with a neat diagram.	(13)
14.	a)	Des	scribe the architecture of VANET with a neat diagram. (OR)	(13)
	b)		plain the design issues in MANET and the applications of adhoc work.	(13)
15.	a)	Exp feat	plain in detail components of iPhone operating systems. List the specia cures of a mobile operating system.	
			(OR)	(10)
	b)	Exp	lain in detail mobile payment schemes and their security issues.	(13)



PART - C

(1×15=15 Marks)

16. a) Consider the network given below. Here 'S' is source node and 'D' is target node. Illustrate the process of route discovery, route reply, data delivery and route caching using DSR. Explain the approach.



b) Enumerate the processes involved in data packet delivery using mobile IP in adhoc networks?

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b) Enumerate the processes involved in data packet delivery uning mobile IP in adject networks.