Total No. of Questions: 10]

PB2303

[6263]-142 **B.E.** (**E** & **TC**)

MOBILE COMPUTING

(2019 Pattern) (Semester-VIII) (Elective-V) (404191E)

Time : 2¹/₂ Hours]

Max. Marks : 70

[8]

[Total No. of Pages :2

SEAT No. :

- Instructions to the candidates:
 - Answer Q.1 or Q.2, Q.3 or Q.4, Q5 or Q6, Q7 or Q8. and Q.9 or Q.10. 1)
 - Neat diagrams must be drawn wherever necessary. 2)
 - Figures to the right indicate full marks. 3)
 - Assume suitable data if necessary. **4**)

Explain basic terminologies of mobile IP. *Q1*) a)

- How does dynamic source routing (DSR) route the data? What are its b) advantages and disadvantages? [8]
- Explain MANETs using mobile IP with suitable diagram. *Q2*) a) [8]
 - What is the basic purpose of DHCP? Explain the protocol with suitable b) diagram. [8]
- Write short note on selective retransmission, an extension of TCP List **Q3**) a) its advantages and disadvantages. [8]
 - Explain with diagram the registration process of mobile node via **b**) foreign agent (FA) and directly with home agent (HA [8]

OR

- Explain the modifications of Indirect TCP What are its advantages and **)4**) a) disadvantages?
 - Compare indirect TCP, snooping TCP and mobile-TCP. [8]

P.T.O.

[8]

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Q 5) a)	Explain reflection, Scattering and ISP in multipath fading channels	nel with
	suitable diagram.	[7]
b)	What is non-coherent detection? Explain with neat di	aoram
0)	non-coherent detection of ESK.	[7]
		[,]
	OR OR	
Q6) a)	Explain fading in detail? Classify types of fading.	[7]
b)	Describe multipath propagation with neat diagram. What is ISI in m	ultipath
	fading channels?	[7]
Q7) a)	What is a mobile payment system? Explain payment process usin	g credit
	card.	[7]
b)	List and explain in brief the design issues of a mobile OS.	[7]
	OR OR	
Q8) a)	Explain mobile operating system. What are needs of a mobile C	OS? List
	different types of OS.	[7]
b)	Draw B2B model and explain any one B2B application.	[7]
Q9) Exp	plain any five characteristics of mobile computing.	[10]
	OR	
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<i>Q10</i>)Explain Rayleigh distribution. How mean and variance of Rayleigh distribution is calculated?		
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Q10)Explain Rayleigh distribution. How mean and variance of Rayleigh distribution is calculated?		
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