PB-2253

SEAT No. :

[Total No. of Pages : 2

[6263]-91

B.E. (Computer Engineering) MOBILE COMPUTING

(2019 Pattern) (Semester - VII) (410245C) (Elective - IV)

Time : 2¹/₂ Hours]

Max. Marks : 70

Instructions to the candidates :

- Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8 *1*)
- Neat diagrams must be drawn wherever necessary. 2)
- Figures to the right indicate full marks. 3)
- Assume suitable data, if necessary. *4*)

Q1) a) Define and explain GSM Bust with diagram.	[5]
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- Draw and explain the GPRS protocol stack. b) [5]
- Explain spectrum allocation with the help of neat diagram. c) [7]

Q2) a)	Explain different architectures of WLAN.	[5]~
b)	Explain UTRA-Network (UTRAN) architecture.	[5]
c)	Explain various traffic and control channels used in GSM network.	97]
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Explain difference between Hard and Soft Handoff. **Q3**) a) [5] Explain the Cell dragging in detail. [5] b) Explain the process of call origination and call termination in GSM. [7] c)

OR

Explain mobility management with neat diagram. **Q4**) a) [5] Define Handover. List and explain the types of handover. b) [5] Explain GSM interfaces and GSM protocol architecture. c) [7] *P.T.O.*

Q 5) a)	Describe data transfer from a mobile node to a fixed node and vice ve	rsa. [6]
b)	Explain agent advertisement and discovery registration in mobile netwo	
0)		[6]
c)	Why and how can optimization in mobile IP be achieved?	[6]
	OR OR	
Q6) a)	How is packet delivery achieved to and from mobile node.	[6]
b)	Discuss how tunneling works for mobile IP using IP_in_IP encapsulation	ion. [6]
c)	Explain the principal of snooping TCP. State advantages and disadvanta of Snooping TCP.	ges [6]
(07)		[7]
Q7) a)	Write short note on VoLGA architecture.	[6]
b)		[6]
c)		[6]
	QR	
Q8) a)	Explain in detail Frame format of TD-SCDMA and explain disadvanta of TD-SCDMA.	ges [6]
b)		
c)	Draw and explain functional architecture of 5G.	[6]
	What is HSPA? Explain in detail? Draw and explain functional architecture of 5G. 10^{-10} $\nabla \nabla \nabla$ 10^{-10} $\nabla \nabla$ 10^{-10} $\nabla \nabla$ 10^{-10} $\nabla \nabla$ 10^{-10} $\nabla \nabla$ 10^{-10} ∇ 10^{-10}	
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