

Eighth Semester B.E. DegreeDec201'9' Jan.2020Wireless Networks and Mobile Computing

Time: 3 hrs.

Max. Marks:100

Note: Answer ant FIVE full questions, selecting atleast TWO questions from each part.

PART - A

	1	 a. Explain the following types of middlewares. i) Message oriented middleware ii) Database middleware. b. What is Transcoding? Mention and Explain the different Transcoding schemes. c. Explain the following with respect to design considerations for mobile computing : i) Chant context manager ii) Security manager. With a neat diagram, explain the architecture of GSM. 	(06 Marks) (06 Marks) (08 Marks) (08 Marks)
	2 a.	 b. Explain briefly the GSM frequency allocation. c. Mention the strengths of SMS and also explain briefly operator centric pull with sSMS. 	(06 Marks)
$\stackrel{::}{\overset{:}{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{$	3	 a. Mention and explain the fiinctionalities of : i) Serving GPRS support node ii) Gateway GPRS support node. b. With a diagram, explain the transmission plane protocol architecture. c. Mention and explain, the applications and limitations of GPRS. 	(06 Marks) (07 Marks) (07 Marks)
P. čr 1 '61 0 -c)		 a. With a diagram, explain the IS-95 architecture model. b. With a relevant diagrams, explain the different handoff mechanisms of 1S-95. c. With a diagram, explain the architecture of WiMAX. 	(08 Marks) (07 Marks) (05 Marks)
0 2 F 0- ° cs e 9	5	 a. With a diagram, explain the components of digital communication device. b. With a relevant examples, explain the design constraints in applications for h devices. c. Explain the following technologies : i) Cellular IP Mobile IP with IPv6. 	(05 Marks) and held (08 Marks) (07 Marks)
ل)	6	a. With a neat diagram, explain the smart client architecture.b. Give the features ofpalm OS and also explain palm OS architecture.c. Why deployment phase is difficult? With a diagram explain the different dep options	(07 Marks) (05 Marks) loyment (08 Marks)
δ ² , , r.i Ο Σ	7	 b. With an examples, explain the features of following wireless mark up languages. i) HDML ii) cHTML. c. With a relevant diagrams, explain the different wireless application protocol program. 	(08 Marks) (05 Marks) gramming (07 Marks)
el <u>e-</u> -	8	b. Give the importance of lowlevel GUI components with an examples, explain the capability of J2ME.	(05 Marks) low level (07 Marks) (08 Marks)