Total number of printed pages – 4 B. Tech
PEEC 5409

Eighth Semester Examination – 2008

MOBILE COMPUTING

Full Marks - 70

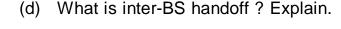
Time: 3 Hours

Answer Question No. 1 which is compulsory and any five from the rest.

The figures in the right-hand margin indicate marks.

- 1. Answer the following in questions : 2×10
 - (a) What is the basic function of WAP gateway?
 - (b) What does it mean that GSM uses both FDMA and TDMA techniques?
 - (c) Can you recover a GSM system if both the HLR and VLR fail at the same time?

P.T.O.



- (e) What is known as mobility anchor point?
- (f) What is called burst and normal burst?
- (g) What is meant by a binding cache?
- (h) Define traffic multiframe and control multiframe.
- (i) What do you mean by mobility binding?
- (j) What are the different types of control channels in GSM ?
- (a) Draw the WAP protocol stack. What is the function of Wireless Application Environment (WAE) ?

2.

(b) What modifications are made to Base Station System to accommodate GPRS?

5

3. (a) Describe WAP network architecture. 5

PEEC 5409 2 Contd.

PEE	C 54	09 3 P.T.C	Э.
		minimization?	5
		service providers do not implement pa	ıth
		Can you find reasons why some cellul	ar
	(b)	Why is path minimization necessary	?
		the limitations of GPRS.	5
6.	(a)	How is data handled in GPRS ? Describ	be
		tages of cellular IP ?	5
	(b)	Explain cellular IP. What are the adva	n-
		tecture with block diagram.	5
5.	(a)	What is PCS system ? Explain its arcl	hi-
		in call routing and roaming.	5
	(b)	Describe the functions of HLR and VL	_R
		GSM ? Describe them.	5
4.	(a)	What are the major parts of an MS	in

(b) Define and differentiate between Wire-

Wireless Session Protocol(WSP).

less Transaction Protocol(WTP) and

5

- 7. (a) What are the various channel assignment scheme used in Personal Communication Service (PCS) network?
 - (b) Discuss essential framework for pervasive web application architecture. 5
- Describe the GPRS architecture and protocols. How many of them already exist in GSM.

PEEC 5409 4 - C

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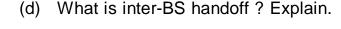
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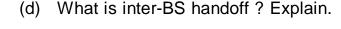
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