## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -2 EXAMINATION- Oct 2017

TEST -2 EXA	AMINATION- Oct 2017
COURSE CODE: 10B1WEC731	ch VII Semester
COURSE NAME: Mobile Communication COURSE CREDITS: 4	MAX. MARKS: 25
Note: All quartiers	MAX. TIME: 1 Hr 30 min
case of unfair means.	MAX. TIME: 1 Hr 30 min of mobile phone during examinations will be treated as
Q1) Which type of different services does GSM services have been separated?	offer? Give some examples and the reasons why these
	(2)
Q2) Name the main elements of the GSM system advantages of specifying not only the radio system?	n architecture and describe their functions. What are the interface but also the internal interfaces of the GSM
O2) Wh	(4)
what is their purpose?	S, but not for HSCSD? Which components are new and
Q4) Why are so many different identifiers/addre between user related and system related iden	
Q5) Design a 200 X 200 cross bar switch using C cross-points.	(3) los criteria. Calculate the total number of
	(3)
Q6) What are the reasons for the delays in a GSM Circuit switched and packet oriented transmis	system for packet data traffic? Distinguish between sion. (3)
value of N for  a) Omni-directional Antennas  b) 120 <sup>0</sup> sectoring  c) 60 <sup>0</sup> sectoring	gital TDMA scheme which can tolerate a signal-to- nd a path loss component of $n = 4$ . Find the optimal
Should sectoring be used? if so, which case (6	
(V8) Give reasons for a handover in GSM and the for handover, which types of handover can or handover for data transmission using HSCSD	problems associated with it. What are the typical steps cour? Which resources need to be allocated during and GPRS respectively?