Seat No.:	Enrolment No
GUJARAT TECHNOLOGICAL UNIVERSITY ME – SEMESTER II (OLD) – • EXAMINATION – SUMMER 2016	

Date:17/05/2016 Subject Code: 1720101 **Subject Name: Wireless Networking & Mobile Computing** Time: 10:30 am to 01:00 pm **Total Marks: 70** Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 0.1 (a) Write advantages and dis-advantages of WLAN. Give protocol architecture of 07 802.11 (b) Compare direct sequence spread spectrum and frequency hopping spread 07 spectrum **Q.2** (I) Explain routing in mobile ad-hoc network. 04 (a) (II) Compare wired network with mobile ad-hoc network. 03 (b) Describe GSM System Architecture with the functionalities provided by each of 07 its subsystems. OR 07 **(b)** Discuss DECT Protocol Layers. 0.3 What are WML features? What are the additional capabilities offered by WML 07 (a) Script than WML? (b) What are the drawbacks of I-TCP? How does snooping TCP overcome that **07** drawback? In what way M-TCP is different from snooping TCP? OR Q.3 (a) Explain coding method in CDMA. **07 (b)** Write a note on Mobile TCP with its merits & demerits. 07 0.4 Describe Wireless Application Protocol version two (WAP 2.0) Architecture. 07 (a) Discuss the client initialization process using DHCP. List the problems related 07 **(b)** with use of DHCP. Also, suggest solutions to those problems. What is Mobile-IP? Explain types of Encapsulation in Mobile IP. 0.4 07 (a) Write a short note on Wireless Sensor Network. **(b)** 07 What are the features desired in a mobile OS as compared to a desktop PC? **Q.5** (a) 07 Explain the requirements of a mobile file system over the conventional one. **(b)** 07 Describe CODA file system. OR 0.5 (a) List and briefly explain all security threats in wireless networks. 07 Explain the evolution of cellular communication from 1G to 3G. **07** 

\*\*\*\*\*\*