

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (OLD) - EXAMINATION – SUMMER 2017

Subject Code: 170702N

Date: 11/05/2017

Subject Name: Wireless Communication & Mobile Programming

Time: 02:30 PM to 05:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Discuss Multimedia Message Service Environment (MMSE) with proper figure. **07**
(b) Explain the essential characteristics of frequency reuse concept. Draw and explain cell cluster in GSM for $k=4$. **07**
- Q.2** (a) Explain tunneling operation in Mobile IP. Discuss the new fields in Mobile IP other than IP. **07**
(b) State and explain different names, mobile computing can be called in different context. **07**
- OR**
- (b) Draw GPRS System Architecture. Discuss GPRS network enhancement over GSM. **07**
- Q.3** (a) What is WiMax? How is it different from WiFi? **07**
(b) Explain wireless TCP and differentiate Indirect TCP, Snooping TCP and Mobile TCP. **07**
- OR**
- Q.3** (a) List and explain various addresses and identifiers used in GSM. **07**
(b) Explain various spreading techniques used in spread spectrum. **07**
- Q.4** (a) Discuss GPRS specific applications along with limitations of GPRS. **07**
(b) Give advantages of Wireless LAN. **07**
- OR**
- Q.4** (a) Compare SIP with H.323. **07**
(b) Write note on RFID security and Mobile Agent security. **07**
- Q.5** (a) Explain ICAP in detail with list of services it can provide. **07**
(b) Compare SOC and AOC clients. **07**
- OR**
- Q.5** (a) List and explain the categories in which Middleware of mobile computing can be grouped in. **07**
(b) Discuss various strengths of SMS. Define SMMT. **07**
