

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII (Old) EXAMINATION – WINTER 2019****Subject Code: 170702N****Date: 05/12/2019****Subject Name: Wireless Communication and Mobile Programming****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.

- Q.1** (a) Explain Three Tier Architecture of Mobile Computing. **07**
(b) What is mobile computing? Compare SOC and AOC clients. **07**
- Q.2** (a) What is CDMA? Explain the orthogonal codes for it. **07**
(b) Explain Bluetooth Protocol Stack in detail. **07**
- OR**
- (b) What is Handover? Explain GSM Architecture with suitable diagram. **07**
- Q.3** (a) What do you mean by mobile IP? How does mobile IP work? **07**
(b) Explain indirect TCP **07**
- OR**
- Q.3** (a) Explain snooping TCP. **07**
(b) What is MANET? List its protocols and explain any one in detail. **07**
- Q.4** (a) Describe the applications for GPRS. **07**
(b) What is CDMA technology? Explain Direct Sequence Spread Spectrum **07**
- OR**
- Q.4** (a) Write a short note on WAP. **07**
(b) What is RFID? Differentiate active and passive RFID. **07**
- Q.5** (a) What is MMS? Describe the MMS architecture. **07**
(b) What is WiMax? How it is differ from WiFi? **07**
- OR**
- Q.5** (a) What is Mobile VoIP? Explain **07**
(b) Explain the functionality of HLR and VLR in call routing **07**
