

GUJARAT TECHNOLOGICAL UNIVERSITY
BE- SEMESTER- VII –EXAMINATION SUMMER 2018

Subject Code: 170702N

Date: 10/05/2018

Subject Name: Wireless Communication & Mobile Programming

Time: 2:30 PM TO 5:00 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) Explain indirect TCP. **07**
(b) Explain Bluetooth protocol stack. **07**
- OR**
- (b) What is mobile IP? Explain discovery, registration and tunneling with mobile IP. **07**
- Q.3** (a) Explain GPRS system architecture. Also discuss limitations of GPRS. **07**
(b) Explain snooping TCP. **07**
- OR**
- Q.3** (a) Explain strength of SMS. Explain SMMT and SMMO in SMS. **07**
(b) Explain the handover procedure in GSM system. **07**
- Q.4** (a) What is frequency reuse? Explain frequency allocation in GSM. **07**
(b) What is RFID? Differentiate active and passive RFID. **07**
- OR**
- Q.4** (a) Write a short note on WAP. **07**
(b) Explain wireless LAN security. **07**
- Q.5** (a) Compare SIP with H.323 **07**
(b) What is WiMax? How it is differ from WiFi? **07**
- OR**
- Q.5** (a) Explain direct sequence spread spectrum. **07**
(b) Explain wireless LAN security issues. Also discuss hidden & exposed station problem. **07**
