

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA – SEMESTER – 5 • EXAMINATION – SUMMER 2018

Subject Code: 2650016

Date: 09-May-2018

Subject Name: Wireless Communication Mobile

Time: 10.30 am to 1.00 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) Do as directed 07**
- 1) The propagation mode in which wave clings to the surface of earth is called _____.
 - 2) When the mobile node detects that it has moved to a foreign network, it registers with the foreign agent and obtains _____ on the foreign network.
 - 3) Snooping TCP gives facility of buffering the data and searching for Acknowledgements. (True/False)
 - 4) _____ type of RFID tags generally have longer read range.
 - 5) MANET stands for _____.
 - 6) H.323 protocol can be utilized for all types of VOIP (True/False)
 - 7) 802.11 standard is used for Bluetooth (True/False)
- (b) Explain following terms 07**
- | | | | |
|---------------|----------|---------|-----------------------------|
| 1) AOC | 3) WiMAX | 5) MMS | 7) Symmetric Key Encryption |
| 2) Middleware | 4) IMEI | 6) VoIP | |
- Q.2 (a) Briefly explain physical architecture of Mobile Computing. 07**
- (b) What do you mean by Signal Propagation ? Explain types of signal propagation. 07**
- OR**
- (b) Briefly explain Bluetooth Protocol Stack 07**
- Q.3 (a) What is RFID ? Explain applications of RFID with types of RFID 07**
- (b) Differentiate between I-TCP, Snooping TCP and M-TCP 07**
- OR**
- Q.3 (a) What is Mobile IP ? Explain different terms of Mobile IP 07**
- (b) Differentiate between IPv4 and IPv6 07**
- Q.4 (a) Explain how GSM architecture works. 07**
- (b) Describe Piconet and Scatternet with example 07**
- OR**
- Q.4 (a) Explain how GPRS architecture works. 07**
- (b) Describe call processing steps in GSM 07**
- Q.5 (a) Explain WAP architecture in detail 07**
- (b) Differentiate between CDMA and GSM 07**
- OR**
- Q.5 (a) What is IEEE 802.11 ? Explain various standards under 802.11 07**
- (b) Differentiate between H.323 and SIP VoIP 07**
