

Enrollment No: _____ Exam Seat No: _____

C.U.SHAH UNIVERSITY

Winter Examination-2018

Subject Name: Wireless Communication

Subject Code: 4TE06WCM1

Branch: B.Tech (EC)

Semester: 6

Date: 26/10/2018

Time: 02:30 To 05:30

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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- Q-1 Define the following: (14)**
- a) Subscriber.
 - b) Mobile Switching Centre.
 - c) Cluster.
 - d) RSSI.
 - e) MAHO.
 - f) Dwell Time.
 - g) paging system.
 - h) GOS.
 - i) Traffic Intensity.
 - j) full duplex system.
 - k) channel capacity.
 - l) Transceiver.
 - m) Roamer.
 - n) Omni directional antenna

Attempt any four questions from Q-2 to Q-8

- Q-2 Attempt all questions (14)**
- (a) Explain in detail with diagram cordless telephone systems. **07**
 - (b) Explain in detail with timing diagram how call is made from Mobile phone to PSTN in cellular telephone systems. **07**
- Q-3 Attempt all questions (14)**
- (a) Explain in detail different leading 2G technologies with its key specifications. **07**
 - (b) Write short notes on Bluetooth and personal area networks (PANs). **07**
- Q-4 Attempt all questions (14)**
- (a) Explain in detail with example handoff strategies at cell boundary. **07**
 - (b) Explain the difference between co-channel interference and adjacent channel interference. Derive the equation for the S / I (signal to interference ratio). **07**



