

By shweta

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

T2 EXAMINATION- Oct. 2019

B.Tech. VII Sem. (ECE)

COURSE CODE: 10B1WEC731

MAX. MARKS: 25

COURSE NAME: Mobile Communication

COURSE CREDIT: 03

MAX. TIME: 1.30 HR.

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

- Q1.** Explain the GSM architecture with detailed description of each of its components. [5]
- Q-2.** (a) Brief the sequence of flow of GSM call with the help of control and traffic channels. [3]
- (b) Give the speech and control channel multi-frame structure of both uplink and downlink channels of GSM. [2]
- Q3.** What are the security measures, encryption algorithms and encryption keys employed in GSM? Give details. [5]
- Q4.** (a) What do you understand by OVSF codes? In what way they are helpful in 3G system? [3]
- (b) Give the specification details of a GSM system. [2]
- Q5** (a) Brief about W-CDMA and TD-CDMA system. [3]
- (b) What are types of handovers in UMTS system. [2]