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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- 2019

B.Tech. (CSE), 7th Semester

COURSE CODE: 15B1WCI731

MAX. MARKS: 25

COURSE NAME: Mobile Computing

COURSE CREDITS: 3

MAX. TIME: 1.5 HRS

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

All questions carry five marks.

1. What specific functions HLR perform in GSM ? Draw the Architecture of GSM. Explain the System Architecture of GSM in term of Radio Subsystems, Network Operation Subsystem and Data Infrastructure. [4]
2. How does the Handover occur in GSM ? What are the requirements for Handover? Explain the procedure of Handover step wise with the help of suitable figure. [4]
3. Identify some of the strengths of SMS ? Explain each of them. Also, state the various applications area where these strengths can be used ? [4]
4. How the GSM and GPRS are different to each other ? What are the network elements in GPRS that are different from GSM ? How is data handled in GPRS ? [4]
5. Draw a suitable diagram for the WAE Logical Model. How the Push and Pull framework works in WAP Architecture ? [4]
6. Differentiate between the GSM and IS-95 in context to the following factors; (i) Frequency (ii) Channel Bandwidth (iii) Voice Codec (iv) Data bit rate (v) SMS (vi) SIM Card (vii) Radio interface (viii) Handoff (ix) System Capacity (x) Economics [5]