Dr. viven schauf

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -3 EXAMINATION- Feb. 2018

B.Tech (CSE, IT, ECE) VIII Semester

COURSE CODE: 15B1WCI832

MAX. MARKS: 15

COURSE NAME: Internet of Things Architecture and Design

COURSE CREDITS: 03

MAX. TIME: 1 Hr

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

- 1. (a) Explain all the seven layers of IoT Reference Model.
 - (b) Explain five layers of an industrial IoT Platform.
 - (c) Explain various wireless technologies used in IoT
- 2. Explain the following communication protocols in IoF:
 - a. For collecting device data and communicating it to servers (D2S)
 - b. For connecting devices to people, a special case of the D2S pattern, since people are connected to the servers
 - c. For integrating intelligent machines (D2D)
 - d. A queuing system designed to connect servers to each other (S2S)
- 3. What is Contiki? Explain the following features of Contiki:
 - a. Memory Allocation
 - b. Full IP Networking
 - c. Power Awareness
 - d. 6lowpan, RPL, CoAP
 - . Dynamic Module Loading