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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

T1 EXAMINATION- Feb. 2020

B.Tech. VIII Sem.

COURSE CODE: 15B1WCI831	MAX. MARKS: 15
COURSE NAME: Wireless Sensor Networks: Protocols and Applications COURSE CREDIT: 03	MAX. TIME: 1 HR.
Note: All questions are compulsory. Carrying of mobile phone during examinates of unfair means.	ations will be treated as
Q1. (a) What is the role of source and sink in WSN? What are their differ	rent interaction patterns?
b) In what way WSNs are different from mobile ad-hoc networks?	[3]
Q-2. (a) What is/are the criterion of selection of multihop wireless cohop and vice versa in WSN? Comment on each.	ommunication over single [2]
(b) Explain the different transceiver operational states of sensor not transition from active to sleep states in the sensor node should be perfor by providing the mathematical formulation.	
Q3. (a) Model the energy consumption of the sensor node in trancomputation stages. How can you relate the energy consumption in serin the sensor node?	
b) Explain the following terms: (i) Dynamic voltage scaling in sensor network (ii) Categories of sensor nodes	[2]