JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2023

M.Tech-I Semester (ECE)

COURSE CODE(CREDITS): 21M1WEC135 (3) MAX. MARKS: 15

COURSE NAME: Signal Processing in IoT

COURSE INSTRUCTORS: Dr. Shruti Jain MAX. TIME: 1 Hour

Note: (a)All questions are compulsory.

(b)Marks are indicated against each question in square brackets.

(c) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

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1. Shyam wants to acquire the data of EMGdi signal using compressed acquisition in IoT. Help in suggesting the various steps to do so. [3, CO1]
2. How the new compressed sensing framework is different from traditional framework of compression theory. [3, CO1]
3. Akansha has drawn one diagram as shown in Fig 1. She is saying that the figure represents IoT Architecture for Compressed data aggregation. Is she correct? If yes explain all blocks of the figure. [3, CO1]

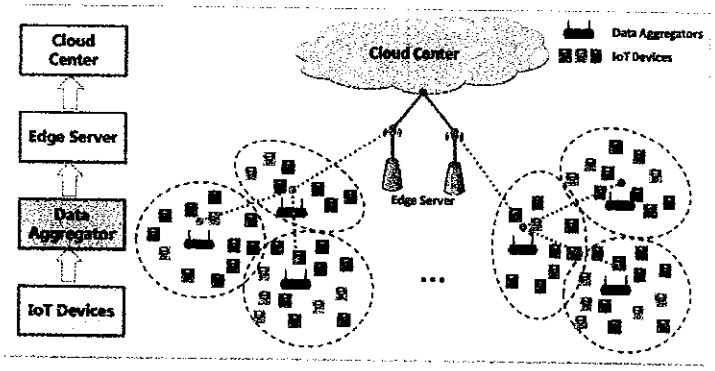

Fig 1

4. Design the model for Remote Elderly Monitoring System (REMS). [3, CO2]
5. Sita wants to apply Discrete Wavelet Technique (DWT) in her wireless sensor network problem. Explain her DWT decomposition and reconstruction steps of a 1D signal for level of 2. [3, CO2]