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**Presidency University**

**Bengaluru**

**SCHOOL OF ENGINEERING**

**Mid Term Exam –OCT - 2023**

**Date**: 30-OCT-2023

**Time**: 11:30AM – 1:00PM

**Max Marks** 60M

**Weightage**: 30 %

**Semester**: SEMESTER VII - 2020

**Course Code**: CSE -3055

**Course Name**: Wireless communication in IOT

**Program** : B.Tech

 **Instructions:**

1. *Read the all questions carefully and answer accordingly.*

**Part A [Memory Recall Questions]**

**Answer all the Questions. Each question carries 2M marks. (5Qx 2M= 10M)**

Q.NO.1 List the enabling technologies in WSN (C.O.No.1) [Remembering L1]

Q.NO.2 Identify the major challenges faced by WSN (C.O.No.2) [Understanding L2]

Q.NO.3 Compare event based over processed based programming (C.O.No.2) [Understanding L2]

Q.NO.4 what are the mechanisms that will form typical parts of WSN (C.O.No.1) [Remembering L1]

Q.NO.5 Differentiate between source node and Sink node (C.O.No.1) [Applying L3]

**Part B [Thought Provoking Questions]**

 **Answer all the Questions. Each question carries 5 marks. (4Qx5M=20M)**

Q.NO 6.Compare Layered Architecture over Clustered Architecture (C.O.No.2) [Understanding L2]

Q.NO.7 Write a short note on Gateway Concepts.in WSN (C.O.No.2) [Remembering L1]

Q.NO.8 what is WSN? Explain the architecture with neat diagram (C.O.No.1) [Remembering L1]

Q.NO.9 List the optimization goals, figures of merit of a WSN and explain each in detail

 (C.O.No.2) [Remembering L1]

**Part C [Problem Solving Questions]**

**Answer all the Questions. Each question carries 15 marks. (2Qx15M=30M)**

Q.NO.10 Explain the following in detail. With suitable diagram

1. Mobility
2. QOS
3. Node interface operating system (C.O.No.2) [Understanding L2]

Q.NO.11. identify the multiple situations of Sensor Networks Architecture and discuss how it aids

 efficient for different applications in WSN (C.O.No.2) [Applying L3]