BEC-203

s:

**B. Tech.**

**Year: II Semester:**

**Assignment – 4 : 2022-2023**

**Electronic Measurement and Instrumentation**

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| **Q.1** | What is an instrumentation system? Define its type. What components used in an analog data acquisition system? |
| **Q.2** | Define digital data acquisition system. What are the uses of data acquisition system? |
| **Q.3** | Explain the construction and working of Liquid Vapour Display (LVD). Define their advantages and disadvantages |
| **Q.4** | Explain the theory and working of LCDs. Describe the difference between light scattering and field effect types of LCDs. Also explain the advantages of LCDs. |
| **Q.5** | Define the Data logger operation with their block diagram. Also define the benefits of using a data logger. |
| **Q.6** | Explain the construction, working principle of A/D converters by using Op-Amp, show it with their truth table. |
| **Q.7** | Draw the block diagram of Single and Multi-channel Data Acquisition System (DAS), and explain the function of each stage of this system with truth table. |
| **Q.8** | Define Error. Explain the different error source present in ADC and DAC by using OP-Amp system in detail. |