Course Code: PHY 3677   **Time: 3Hrs**

Course Title: Microprocessor & Communication Systems   **Max: 75 marks**

PART - A

Answer ANY FIVE questions   **(5 X 15 = 75)**

1. With necessary diagrams explain the architecture of 8088 microprocessor.

2. Explain the arithmetic instructions used in 8088 microprocessor with relevant examples.

3. Describe the frequency spectrum of an amplitude modulated wave.

4. With a neat block diagram describe the working of a tuned radio frequency receiver and superheterodyne receiver.

5. Explain Automatic Gain Control and describe the working of a simple diode detector with a neat circuit diagram.

6. Explain Orbital perturbations and Satellite stabilization.

7. Describe the different types of satellite orbits in detail.

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