ABV-Indian Institute of Information Technology & Management, Gwalior

EE201: Signals and Systems

Minor Examination – Session 2024–25

Maximum Time: 1.5 Hours Max Marks: 25

Note: Attempt all questions. Clear steps carry credit.

1. Define deterministic and random signals. Give two examples of each.	(5 Marks)
2. For $x(t) = e^{-2t}u(t)$, test if it is an energy or a power signal.	(5 Marks)
3. Check the periodicity of $x[n] = \cos\left(\frac{3\pi n}{4}\right)$.	(5 Marks)
4. Compute $(u(t) * \delta(t-1))$, where * denotes convolution.	(5 Marks)

(5 Marks)

5. Write a short note on even and odd decomposition of signals.