

# Sample Questions

**Subject: Digital Signal System      Course: T.Y.B.Sc.(I.T.)      Semester: 6**

Q1. If nature and amplitude of a signal at any time is predictable, then the signal is known as

1. Periodic
2. Stochastic
3. Power
4. Deterministic

Q2. The fundamental period of a signal  $\sin 6\pi t$  is

1. 0.3333 seconds
2. 3 seconds
3. 0.6666 seconds
4. 0.1333 seconds

Q3. The sum of two continuous periodic signal is periodic if

1. difference of their fundamental periods is rational
2. sum of their fundamental periods is rational
3. ration of their fundamental periods is rational
4. sum of their fundamental periods is integer

Q4. A signal is said to be odd if

1. If it exhibits anti-symmetry in time domain
2. If it exhibits symmetry in time domain
3. If it exhibits symmetry in frequency domain
4. If signal and its inverse is same

Q5. The signal  $\cos 20 \pi t$  is

1. Periodic and Discrete
2. Periodic and continuous
3. Aperiodic and Discrete
4. Aperiodic and continuous