St. Francis Institute of Technology
Borivali (West), Mumbai-400103

Information Technology Department

Academic Year: 2023-24 **Semester: III**
Class / Branch / Division: SE - IT A/B **Subject: Principle of Communication**

MODULE – 2B – Noise

IMPORTANT QUESTIONS

Q1. Define the following -

- Noise
- Signal to noise ratio
- Noise Figure
- Noise Factor
- Noise Temperature

Q2. Classify noise stating clearly the factors that contribute to generation of each type.

Q3. Differentiate between correlated and uncorrelated noise.

Q4. Highlight the main reason due to which the following type of noise exist

- Thermal noise
- Shot noise
- Partition noise
- Low frequency noise
- High frequency noise
- Natural Noise
- Man-made noise

Q5. Derive the expression for –

- Noise voltage
- Friis formula for cascaded amplifiers
- Equivalent noise temperature for cascaded amplifiers

NUMERICALS of the following types –

Noise – Calculation of thermal noise power, thermal noise voltage, SNR, noise factor, noise figure, Overall Noise factor/ noise figure (Friss formula)

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