

School of Engineering

M.Tech Power System Engineering
Semester End Examination - Jun 2024

Duration : 180 Minutes
Max Marks : 100

Sem II - G2PI205C - Power Quality

General Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

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| 1) | Define purpose of digital fault recorders. | K1(2) |
| 2) | Explain the long duration voltage variations. | K2(4) |
| 3) | Explain the effect of line drop compensation on the voltage profile. | K2(6) |
| 4) | Illustrate various instruments used for power quality measurements. | K3(9) |
| 5) | Illustrate Sharpness of Tuning of Passive Filters. | K3(9) |
| 6) | Examine the effects of harmonic distortion on transformers and motors. | K5(10) |
| 7) | Analyze the process of calculating the symmetrical components of voltage and current during a faulted condition, and how are these components used in power quality assessment. | K4(12) |
| 8) | Examine the steps involved in power quality monitoring and the information's from monitoring site survey. | K5(15) |
| 9) | Examine about the Configuration, Structure and Control of UPQC. | K5(15) |
| 10) | Discuss about IEEE and IEC Standards used for power quality issues and Describe the objective of power quality standards. | K6(18) |