## POLYTECHNIC, B.E/B.TECH, M.E/M.TECH, MBA, MCA & SCHOOL

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<ol> <li>Classify different types of voltage sags.</li> <li>How voltage swell differs from transients?</li> <li>What are the causes for oscillatory voltage transients?</li> <li>Why even harmonics are normally absent in the power converters?</li> <li>Distinguish between passive and active filter.</li> <li>Define Point of Common Coupling.</li> <li>What are the benefits of Power Quality Monitoring?</li> <li>Give the merits of Digital Power Quality Analyzers.</li> <li>PART B — (5 × 13 = 65 marks)</li> <li>(a) Explain the impact of poor power quality on utility and consumer.</li> </ol>		
B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022.  Sixth Semester  Electrical and Electronics Engineering  EE 8006 — POWER QUALITY  (Regulations 2017)  Time: Three hours  Maximum: 100 marks  Answer ALL questions.  PART A — (10 × 2 = 20 marks)  1. Define Voltage imbalance.  2. What are the main components of power quality:  3. Classify different types of voltage sags.  4. How voltage swell differs from transients?  5. What are the causes for oscillatory voltage transients?  6. Why even harmonics are normally absent in the power converters?  7. Distinguish between passive and active filter.  8. Define Point of Common Coupling.  9. What are the benefits of Power Quality Monitoring?  10. Give the merits of Digital Power Quality Analyzers.  PART B — (5 × 13 = 65 marks)  11. (a) Explain the impact of poor power quality on utility and consumer.		Reg. No. :
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