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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech IV Year I Semester Regular Examinations Feb-2021

PRINCIPLES OF POWER QUALITY

(Electrical and Electronics Engineering)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units **5 x 12 = 60** Marks)

UNIT-I

1 What are the responsibilities of end users and suppliers of electric power supply? 12M

OR

2 i) Define notching, ii) What is meant by dc offset, iii) Define coupling, 12M
iv) What is meant by surge, v) Define flicker

UNIT-II

3 Draw and explain the impulsive and oscillatory transients 12M

OR

4 Mention the categories and characteristics of electromagnetic phenomena in power systems? 12M

UNIT-III

5 What are effects of harmonics? Explain harmonic distortion evaluation procedure? 12M

OR

6 Explain the brief description about the harmonic distortion evaluation. 12M

UNIT-IV

7 Explain the various power quality monitoring considerations. 12M

OR

8 Explain the categories of instruments to consider for harmonic analysis. 12M

UNIT-V

9 Explain the solid transfer switch transfer with the transfer operation? 12M

OR

10 Explain the principle of DVR operation used for sag mitigation? 12M

*** END ***