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Total No. of Questions :51

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EX - 8301(NGS) B.E. VIII Semester Examination, June 2014 Power Quality

Time: Three Hours

Maximum Marks: 70

Note: Attempt any two parts from each question. All questions carry equal marks.

- 1. a) Define power quality. Explain the reasons for increased concern in power quality.
 - b) What are the major power quality issues? Explain.
 - c) Discuss the short duration variations characteristics of power quality events.
- 2. a) What is the need of estimating sag performance?
 - Describe the various causes of voltage sags.
 - Explain the different methods of estimating sag performance.
- a) Explain the different types of transient over voltages.
 - b) What is the need for protection against over voltages? What are the basic principles of over voltages protection of load equipments?
 - c) What are the equipments required to satisfy the customer to mitigate harmonic distortion and interruption?
- a) Give the various types of harmonic filtering devices and suggest the most applicable one.
 - Explain the power system response characteristics under the presence of harmonics.
 - c) What are the devices for controlling harmonic distortion? Explain the operation of any one of them.
- 5. Write short notes on any two of the following:
 - a) Electro magnetic compatibility
 - b) Discontinuous current control
 - c) Constant frequency control.

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