Medium-Voltage Cable Analysis

These are general questions regarding testing and test equipment. Answers can be found in the NETA Acceptance Testing Specification ATS-03 if you get stumped.

1. List four test methods for medium-voltage power cables?
   A. __________________________
   B. __________________________
   C. __________________________
   D. __________________________

2. A dc overpotential test for in-service testing (if performed incorrectly) could cause damage to what type of cables?
   A. EPR
   B. XLPE
   C. Oil-insulated
   D. It is safe for all cables

3. What is the recommended acceptance test voltage for a dc overpotential test on a 15 kV cable with a 133 percent insulation level?
   A. 18 kV dc
   B. 23 kV dc
   C. 35 kV dc
   D. 44 kV dc

4. What could cause damage to cables when tested by a dc high potential test set?
   A. DC voltage causes electrons to become unstable, forcing them through the insulation.
   B. Negative ionization of insulation
   C. Flashover either during testing or when grounding at the end of the test
   D. None of the above

5. What is the minimum discharge time recommended at the end of cable testing?
   A. 3 minutes
   B. 5 minutes
   C. Twice the test period
   D. Four times the test period

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