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## EE-7201-GS

### **B.E. VII Semester**

Examination, December 2020

## Grading System (GS)

### **High Voltage Engineering**

Time : Three Hours

#### Maximum Marks: 70

*Note:* i) Attempt any five questions.

- ii) All questions carry equal marks.
- 1. Explain the tesla coil. How is damped high frequency oscillations obtained from a tesla coil?
- 2. Explain the partial discharge test on high voltage cables. How is a fault in the insulation located in this text.
- 3. a) Derive an expression for ripple voltage of a multistage Conversion for circuit.
  - b) signation of a clearly basic principle of operation of an electrostatic generator.
- 4. a) What are the requirement of a sphere gap for measurement of high voltage? Discuss the disadvantages of sphere gap for measurements.
  - b) Explain the principle of operation of electrostatic volt meter.
- 5. Discuss the terms "mobility of ions and electrons", "diffusion coefficient" and "electron energy distributions".

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- 6. Explain the generating voltmeter used for measuring high dc voltages. How does it compare with a potential divider for measuring high dc voltages?
- 7. Explain the various theories that explain breakdown in commercial liquid dielectrics.
- 8. Explain the following (Any two) :
  - Need for generating high voltages in laboratory. a)

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- Important applications of high voltage. b)
- BIL. C)
- Methods of insulation co-ordinator. d)

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