

**B.Tech. 1st Semester (Common for All Branches)  
(Common with Special chance) F Scheme  
Examination, December-2019**

**BASIC OF ELECTRONICS**

**Paper-ECE-101-F**

*Time allowed : 3 hours]*

*[Maximum marks : 100*

*Note : There are nine questions. Attempt any five questions in total. Question No. 1 is compulsory. One question must be attempted from each section.*

1. (i) What is an amplifier and why there is need for cascading ? 5
- (ii) LED emit light of different colors. Why ? 5
- (iii) What are the differences between Zener and Avalanche breakdown ? 5
- (iv) What is an ideal diode ? Discuss with its equation. 5

**Section-A**

2. (a) Explain semiconductor with its types. Why Si is preferred over Ge ? 10
- (b) State and explain drift and diffusion current. 10
3. (a) Explain the terminal characteristics of PN junction diode. 10

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