

Roll No.

Total Pages : 02

BT-2/M-19

32031

BASICS OF ELECTRONICS ENGG.

ECE-101N

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt Five questions in all, selecting at least one question from each Unit.

Unit I

- 1. (a) Explain the operation and applications of Photodiode. 5
- (b) Explain the working of Half-wave Rectifier. 5
- (c) Explain the diode as switch. 5
- 2. Explain the I-V characteristics of Zener diode. Distinguish between Zener Breakdown and Avalanche Breakdown. 15

Unit II

- 3. (a) Explain the concept of feedback in Amplifiers. 7½
- (b) State the conditions under which a feedback amplifier works as oscillator. 7½

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P.T.O.

- 4. Explain the following terms :
 - (a) Operating point of Transistor 5
 - (b) Brasing circuit for Transistor 5
 - (c) Amplifying action of BJT. 5

Unit III

- 5. Discuss the characteristics and basic parameters of OPAMP. 15
- 6. (a) Explain the concept of virtual ground in OPAMP. 7½
- (b) Discuss the applications of OPAMP in detail. 7½

Unit IV

- 7. (a) Discuss the concept of Enhancement and Depletion MOSFET. 7½
- (b) Explain the I-V characteristics of Depletion MOSFET. 7½
- 8. Explain the characteristics, operation and applications of SCR. 15

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