**B.Sc.(IT) II Semester Sessional Examination, March 2018**

**Subject Name: Applied Electronics**

**Duration: 1:30 hr. Max Marks: 50**

**Section -A**

**Sort Answer Type Questions: (Any Three) (8x3=24)**

Q.1 Derive the relation between α and β.

Q.2 Differentiate between insulator, semiconductor and conductor?

Q.3 What do you understand by transistor biasing. Write the types of biasing.

Q.4 What is varactor diode draw its V-I characteristics.

**Section -B**

**Long Answer Type Question: (Any Two) (13X2=26)**

Q.1 Explain working and formation of N-P-N transistor.

Q.2 A amplifier has β= 100. Calculate the approximate collector current and base current if the emitter current is 8 mA..

Q.3 Explain the formation of N-type and P-type semiconductor.

*TEAR FROM HERE*

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