SB	Roll No.		

### **ELECTRONIC DEVICES AND CIRCUITS**

# 3<sup>RD</sup> EXAM/ECE/EMP/ETV/ECE(II)0616/0361/May 2015

Duration: 3Hrs M. Marks:75

### **SECTION-A**

#### **SECTION-B**

## Q2: Attempt any five questions:

5x6 = 30

- (a) Explain the class A operation of amplifier.
- (b) Write the use of positive feedback.
- (c) Discuss working principle of transistor as a switch.
- (d) Discuss Hartley oscillator functioning and circuit.
- (e) Explain line and voltage regulation
- (f) Discuss the basic principle of working of diode clippers.

#### **SECTION-C**

# Note: Attempt any three questions.

3x10=30

- Q3. What are the applications of multivibrators? Discuss the working of IC 555 as a stable multivibrator.
- Q4. Discuss the working of RC coupled multistage amplifier. What are its advantages and disadavantages.
- Q5. Explain the working of an RC phase shift oscillator.
- Q6. What is the basic principle of photo resistors? Discuss its characteristics.