

(2)

- Q.6 (a) Explain half adder.
(b) Discuss decimal, binary and octal numbers
- Q.7 (a) Explain the working of semiconductor diode.
(b) Describe the working of BJT (Bipolar junction transistors).
- Q.8 Write short notes on any two of the following:
- (a) Superposition theorem
 - (b) Analysis of magnetic circuit
 - (c) OC and SC test
 - (d) OR gate and NAND gate
 - (e) R-S flip flop
 - (f) V-I characteristic of semi conductor diode
 - (g) Mode of operation of BJT

[Total No. of Questions: 8]

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Enroll No.....

EE-11

B.Tech.–I (Reg./Ex) & II (Ex.)

Examination, March-2021

Basic Electrical & Electronics Engineering

Time: Three Hours

Maximum Marks:70

Note: Attempt any five questions. (Each question carries equal Marks)

- Q.1 (a) Explain voltage and current source.
(b) State and explain thevenin's source.
- Q.2 (a) Explain meaning of reactive power and power factor.
(b) Explain star and delta transformation.
- Q.3 (a) What are laws of electromagnetism explain?
(b) Explain basic concept of transformation.
- Q.4 (a) Describe constructional details of DC machine.
(b) Explain working principle of 3-phase induction motor.
- Q.5 (a) State and explain De Morgan's theorem.
(b) Give the truth table and symbol AND gate and NOR gate.