

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER- 1st / 2nd EXAMINATION (NEW SYLLABUS) – WINTER 2018

Subject Code: 2110016

Date: 08/01/2019

Subject Name: Basic Electronics

Time: 10:30 AM TO 1:00 PM

Total Marks: 70

Instructions:

1. Question No. 1 is compulsory. Attempt any four out of remaining six questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1	Objective Question (MCQ)	Mark
	<p>(a) Choose an appropriate option from following.</p> <ol style="list-style-type: none">1. For a maximum transfer of power, internal resistance should be a.) Equal to load resistance b.) Less than load resistance c.) Greater than load resistance d.) None of the above.2. Ideal voltage source should have a.) Large Value of EMF b.) Small value of EMF c.) Zero source resistance d.) Infinite source resistance.3. Which of the following is bilateral element? a.) Constant current source b.) Constant voltage source c.) Capacitor d.) None of the above4. CMRR of an OP-AMP is- a.) Finite b.) Zero c.) Infinite d.) unity5. Which one is the linear application design by OP-AMP a.) Integrator b.) Voltage regulator c.) Multiplier d.) Comparator6. In binary system, decimal 1 can be written as a.) 0001 b.) 0010 c.) 0100 d.) 10007. A BYTE stand for a string of _____ BITS a.) Two b.) Four c.) Eight d.) Twelve	07
	<p>(b) Choose an appropriate option from following.</p> <ol style="list-style-type: none">1. Flip flop circuit is _____ a.) Unstable b.) Multistable c.) Monostable d.) Bistable2. Which frequency is higher in FM? a.) Carrier frequency b.) Information signal frequency c.) Both are equal d.) None of these3. Which of the following is not a part of automatic control system? a.) Sensor b.) Error Detector c.) Oscillator d.) Final Control Element4. Identify the passive elements among the following a.) Voltage source b.) Current source c.) Inductor d.) Transistor5. The digital signals are _____ time signals. a.) Continuous b.) Discrete c.) Continuous and discrete d.) None of the above	07

