Roll No. ....

2nd Sem / Branch : Computer, Computer (For Speech and Hearing Impaired)

Subject:- Analog Electronics

Time : 3Hrs.   M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory   (6x1=6)

Q.1   When an Atom loses its electron, it becomes (COE1)
a)   A Positive Ion
b)   Becomes electrically Neutral
c)   Becomes Negative Ion
d)   None of these

Q.2   Process of adding impurities in a pure semiconductor   (COE1)
a)   Biasing   b)   Potential Barrier
c)   Dopping   d)   None of these

Q.3   IC 555 Timer can be used as   (COE4)
a)   Astable Multivibrator
b)   Both A&C
c)   Bistable Multivibrator
d)   None of these

Q.4   A Zener Diode is used as   (COE1)
a)   Coupler   b)   An Amplifer
c)   Rectifier   d)   Voltage Regulator

Q.5   Most commonly used transistor configuration is
                                            (COE2)
a)   Common Collector b)   Common Base
c)   Common Emitter   d)   All of these

Q.6   Transistor is used as a switch   (COE2)
a)   True   b)   False

SECTION-B

Note: Objective type questions. All questions are compulsory.   (6x1=6)

Q.7   Expand PIV   (COE3)
Q.8   What is Thermister   (COE1)
Q.9   What is Voltage Regulator   (COE1)
Q.10   Draw symbol of MOSFET   (COE2)
Q.11   What is the Function of Oscillator   (COE4)
Q.12   What do you mean by Ripples   (COE3)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions.   (8x4=32)

Q.13   Draw half wave Rectifier. What is its Ripple Factor?
                                            (COE3)

Q.14   Write down the Properties of Semiconductor.
                                            (COE1)

Q.15   What do you mean by Thermal Runaway?   (COE2)

Q.16   Draw block diagram of regulated power supply
                                            (COE3)

Q.17 State difference between acceptor and Donar impurities. (COE1)

Q.18 What is CMMR (COE5)

Q.19 How transistor can work as a switch (COE2)

Q.20 Show how PI Filter works (COE3)

Q.21 What is the function of Opamp as integrator ? (COE5)

Q.22 Write some features of IC 555 timer. (COE5)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.36 Explain the working of push pull amplifier. (COE4)

Q.37 Draw and explain pin diagram of 555 timer (COE5)

Q.38 Differentiate between BJT and MOSFET (COE2)