

GURUDAS COLLEGE
INTERNAL EXAMINATION,2020
COMPUTER SCIENCE (HONOURS)
(Under CBCS system)
SEMESTER II
PAPER CC4
THEORY

F.M : 25

GROUP A

1. Define KCL and KVL. What do you mean by virtual ground in an OPAMP. 2.5+2.5
2. Draw the Bridge Rectifier explain the Function. 5
3. Explain the Zener Breakdown and Avalanche breakdown of a p-n junction diode due to a large reverse current. 5
4. Derive the relation between α and β of a transistor. 5
5. Explain the use of an OPAMP as a differentiator 5
6. Explain the operation of Half wave rectifier with suitable diagram. 5
7. What are the differences between intrinsic and Extrinsic semiconductors? 5

GROUP B
INTERNAL ASSESSMENT
F.M:10

1. What is PIV of a Diode? What is a load line? Explain its significance. 2+2+1
2. What is Forbidden Gap? What happens to this Gap for PN junction under reverse bias? 2+3

Send the Scanned answer scripts to the following mail id:
csexam.cmsa3@gmail.com