http://www.rgpvonline.com

Total No. of Questions: 8]

[Total No. of Printed Pages: 2

Roll No

EX-304 (Old) B.E. III Semester

Examination, December 2016

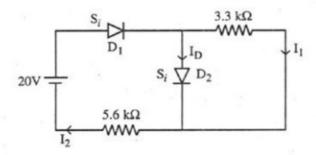
Electronic Devices and Circuits - I

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- a) Determine the currents I₁, I₂ and I_D for the network shown below.



- b) Differentiate between half wave and full wave centre tap rectifier.
- a) Elaborate the working of clipper and clamper circuits with the help of neat diagrams.
 - b) Write short note on any two of the following:
 - i) Zener Diode
 - ii) Tunnel Diode
 - iii) LCD

http://www.rgpvonline.com

http://www.rgpvonline.com

3.	a)	Explain the working of a JFET and give its characteristics curve.	5
	b)	MOOTET	7
4.	a)	Explain the concept of early effect in CB configuration of BJT. Is two back to back diodes can work as transistor	?
		Give reason to support your answer.	7
	b)		7
5.	a)	Explain the principle of Bootstrapping and give it advantages.	7
	b)	Explain the analysis of low frequency response of RC coupled amplifier in CE configuration.	7
6.	a)	Describe general characteristics of negative feedback amplifier and also discuss the effect of feedback of amplifier characteristics.	k T
	b)	Draw and explain the circuit diagram of Darlingto amplifier.	7
7.	a)	Draw the circuit diagram of RC phase shift oscillator an explain its operation.	7
	b)	Explain the working of class A push pull amplifier wit circuit diagram. Also list the advantages of power amplifier.	1
Q	W	rite short notes on any two of the following:	4
0.	VV.	Commendation and harmonic distortion	

EX-304 (Old) PTO

Schottky diode

Single tuned and double tuned voltage amplifiers