Government College of Engineering, Amravati

Department of Information Technology Class Test-1

Course Code: ETU311

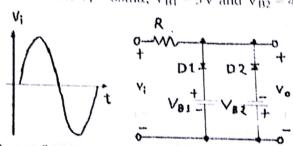
Course: Electronic Devices and Circuits

Time: 3:00-4:00 Max. Marks: 15

3

Note: Q.1 is compulsory & attempts any three from Q.2 to Q.5

Q.1Find output wave form. When $V_i = 6\sin\alpha$, $V_{B1} = 3V$ and $V_{B2} = 4V$.



Explain the working of center tapped FWR and derive regulation factor, 4 Transformer utilization factor and ripple frequency for Center tapped FWR.

Explain the input output characteristics for common base configuration and 4 analyze input resistance and output resistance from respective curves.

What is a filter? Explain working of C Filter & L input filter. 20.4

Explain the working of NPN Transistor and also Determine base current if 4 2.5 emitter current is 1.2mA and leakage current is 45 µA for CB configuration when current amplification factor is 0.988.

