

GOVERNMENT COLLEGE OF ENGINEERING AMRAVATI
(An Autonomous Institute of Government of Maharashtra)
Department of Electronics and Telecommunication
Class Test II

Subject: ETU 501 Linear Integrated Circuits and Applications

Date: 19/09/2016

Marks: 15

SOLVE ANY THREE

- Q1. Design a first order low pass Butterworth filter at a cut-off frequency of 2 KHz with pass band gain of 4. Plot the frequency response for this filter. Using frequency scaling technique convert the cut-off frequency of 2 KHz to 3.2 KHz. (5M)
- Q2. What is frequency response; explain with the help of high frequency model of OP-AMP. Write observations made from same frequency response. (5 M)
- Q3. Explain the need of frequency compensation. What is difference between compensated and non-compensated op-amp. (5 M)
- Q4. Explain Pole-zero compensation technique. (5 M)