

VITHALBHAI PATEL & RAJRATNA P.T. PATEL SCIENCE COLLEGE
VALLABH VIDHYA NAGAR

S.Y. B.Sc. SEM: IV
SUB: ELECTRONICS
SUB CODE: US04CELE01

INTERNAL TEST

DATE: 12th March 2014
TIME: 1:00 pm to 2:30 pm
TOTAL MARKS: 30

- Q.1 Answer the following in short.(Attempt Three, each two marks) [06]
- (1) The out put power of an amplifier is measured as 1 volt at 5 kHz and 0.707 volt at 20 KH_z, calculate the decibel change in output.
 - (2) List different FET parameters.
 - (3) Draw the symbol of photo diode, solar cell and light emitting diode.
 - (4) List different type of opto electronics couplers.
 - (5) Draw the self bias circuit of n-channel FET and explain its working.
 - (6) Why potential divider FET biasing circuit is best than self FET bias circuit?
- Q.2 Draw the frequency response curve for transistor amplifier and explain why the gain falls off at lower and upper frequency. [08]
- OR
- Q.2 Give an account of fixed voltage bias circuit for FET. [08]
- Q.3 Give an account of photo multiplier tube [08]
- OR
- Q.3 Give an account of LCD in detail. [08]
- Q.4 Give an account of n-channel enhancement MOSFET [08]
- OR
- Q.4 Draw the potential divider biasing circuit using n-channel FET. Explain it's working and analysis [08]



-: ALL THE BEST:-