

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

T.Y. B.Sc. SEM: VI
SUB: ELECTRONICS
SUB CODE: US06CELE06

INTERNAL TEST

DATE: 15th March 2014
TIME: 3:30 pm to 5:00 pm
TOTAL MARKS: 30

- Q.1 Answer the following in short.(Attempt Three, each two marks) [06]
- (1) Explain additive colour mixing in colour TV.
 - (2) Explain importance of blue lateral magnet in colour TV.
 - (3) Draw the neat diagram showing construction of Fiber optic cable.
 - (4) List the different types of Fiber optic cable with respect to refractive index.
 - (5) Explain Avalanche multiplication process.
 - (6) Differentiate between the Spontaneous and Stimulated emission of radiation.
- Q.2 Draw the Block schematic arrangement of Colour TV Camera and explain its working. [08]
- OR
- Q.2 Explain in detail principle of working of Shadow Mask picture tube. [08]
- Q.3 Explain in detail Step-Index Fiber optic cable. [08]
- OR
- Q.3 Explain in detail Graded-Index Fiber optic cable [08]
- Q.4 Give an account of Avalanche Photo-Diode. [08]
- OR
- Q.4 Give an account of PIN Photo-Diode. [08]



-: ALL THE BEST:-