VITHALBHAI PATEL & RAJRATNA P.T. PATEL SCIENCE COLLEGE VALLABH VIDHYANAGAR

INTERNAL TEST

Date: 11th March, 2017 T.Y.B.Sc. Sem VI Sub Code: US06CELE06 Time: 11:00 am to 12:30 pm Sub.: Electronics Total Marks: 25 0.1 Choose the correct answer (3)mixing Principle is used in Color TV. (1)(a) Additive (b) Substractive (c) Black (d) None of the above (2)The refractive index of core is then refractive index of cladding. (a) more (b) less (c) equal (d) very less (3)The spectral width of lesser diode is ____ the spectral width of LED. (a) more than (b) less than (c) equal to (d) none of these Q.2 Answer the following in short (Any two) (4)(1)Explain additive color mixing in color TV. (2)Draw a neat diagram showing construction of optical fiber. (3)Explain avalanche multiplication process. Q.3 Draw the block schematic arrangement of color tv, camera and explain it. (6)Draw the block diagram of PAL encoder and explain its working in detail. Q.3 (6)Q.4 Explain principle of fiber optic in detail. (6)OR Q.4 Explain in detail step index fiber. (6)Q.5 Give an account of Laser. (6)OR Q.5 Draw the energy band diagram of biased and unbiased LED and explain the (6)working principle of it, also draw typical biasing circuit.

