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DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Mid semester Examination-March-2019

Sem.: Mark Mark Time: question paper. n must be drawn wherever necessary. le calculator is allowed. ate full marks. quired. i. Square function of applied field v. Logarithmic function of applied field. ains constant is iii. Both iv. None of above ization are said to be ization are said to be ization are said to be iii. opaque iv. Polaroids. oduce ultrasonic wave? i. Fe-rod iv. All refractive index of core is always greater than iv. none of above.
olaroids.
ii. Co-rod iii. Fe-rod iv. All structure of optical fibre cable, the refractive index of core is always
, [co
it volume is meter ² iii. coulomb/meter ³
Q. 2. Attempt any TWO of the following (6 Marks) i) Discuss important applications of ultrasonic waves ii) Explain the structure of optical fiber and mechanism of light propagation in to the fiber [CO2]
ring was 0.336cm. If the radius of the plano-convex lens is 100cm, compute the wavelength of light
used. [CO2] Q.3. Attempt any ONE of the following i.) What is damped oscillation? Obtain a differential equation for damped vibration and find its solution.
ii.)Explain the principle, construction and working of Ruby laser. [CO2]

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