

ring was 0.336cm. If the radius of the plano-convex lens is 100cm, compute the wavelength of light

[C02]

## DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE RAIGAD-402103

## Mid semester Examination- March-2019

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Q. 2. Attempt any TWO of the following i) Discuss important applications of ultras ii) Explain the structure of optical fiber an	f) The unit of dipole r i. coulomb/meter i	the refractive index of cladding. i. less than ii. Equal to	wi. Ni-rod	c) The substances that i. Optically active	iii. exponential function of applied field  b) In free vibrations, the property that  i. Amplitude  ii. Total exponential	4. Figures to the 5. Assume suitabl Q.1. Attempt following questions a) In dielectric, the polarization is	Instructions:- 1. L 2. N 3. U	Branch: Group B ( CSE, ECT, EEP,IT) Subject: Engineering Physics (BTBS202) Date: 12/03/2019
Q. 2. Attempt any TWO of the following  i) Discuss important applications of ultrasonic waves  [CO1]  ii) Explain the structure of optical fiber and mechanism of light propagation in to the fiber. [CO2]	f) The unit of dipole moment/unit volume is i. coulomb/meter ii. coulomb/meter iii.	if cladding.	E d) Which of the following can be used to produce ultrasonic wave?    COI	e i. Optically active ii. Optically inactive iii. opaque iv. P	t ren	Figures to the right indicate full marks.  Assume suitable data if required.  ring questions  polarization is	Do not write anything on question paper. Neat and labeled diagram must be drawn wherever necessary. Use of non- programmable calculator is allowed.	SE, ECT, EEP,IT) ¿Physics (BTBS202)
tic waves nechanism of light pro	coulomb/meter3	iii. greater than	roduce ultrasonic way iii. Fe-rod e refractive index of c	ni. Both iv rization are said to be iii. opaque iv	ono	cate full marks, required.	n question paper. Im must be drawn wher ble calculator is allow	-
() pagation in to the fiber	iv. coulomb	iv. none of above.	ave? iv. All fcore is always	one of above olaroids.				Sem.:- II Marks:20 Time:1 H
(6 Marks) [COJ] er.[CO2]	[coi]	[CO2]	[COI]	[CO2]	[coɪ]	(6 Marks) [CO1]		Sem.:- II Marks:20 Time:1 Hrs