

# GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem- 1<sup>st</sup> Regular Examination January 2011

**Subject code: 110011**  
**Subject Name : PHYSICS**

Date: 03/ 01/2011

Time: 10.30 am - 01.00 pm

Total Marks: 70

## Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

<b>Q.1</b>	<b>Answer the following in short</b>	<b>14</b>
(a)	State the characteristics of Laser.	
(b)	Define reverberation time	
(c)	Define piezoelectric effect	
(d)	What do you mean by primitive cell	
(e)	Give the full form of NDT	
(f)	Give two examples of tri-valent impurities for semiconductors	
(g)	Explain the term lattice and basis	
(h)	State the types of the optical fibers.	
(i)	What is the transition temperature for mercury.	
(j)	Define superconductivity.	
(k)	Define shape memory effect	
(l)	Give two examples solid lasers	
(m)	State the main components of the optical fiber	
(n)	Define sound intensity.	
<b>Q.2</b>	<b>(a) Answer the following in detail</b>	
	1 Explain the construction and working of Nd: YAG laser	<b>05</b>
	2 Compare type-I and type-II superconductors.	<b>02</b>
(b)	<b>Answer the following in detail</b>	
	1 Discuss the advantages of optical fiber communication system over the conventional system.	<b>05</b>
	2 Calculate the NA , the acceptance angle of the fiber having $n_1 = 1.52$ and $n_2 = 1.45$ .	<b>02</b>
	<b>OR</b>	
<b>Q.3</b>	<b>(b) Answer the following in detail</b>	
	1 Discuss the properties , types and applications of metallic glasses	<b>05</b>
	2 A hall has volume of $7500 \text{ m}^3$ . What should be the total absorption in the hall if the reverberation time of 1.5 sec is to be maintained ?	<b>02</b>
	<b>Answer the following in detail</b>	
(a)	Derive the relation between Einstein's coefficients A and B .	<b>05</b>
(b)	State the characteristics of laser light .Explain the terms stimulated emission, spontaneous emission, population inversion, optical resonators and active medium	<b>05</b>
(c)	An ultrasonic source of 0.09 MHz sends down a pulse towards the seabed which returns after 0.55 sec. The velocity of sound in water is 1800 m/s .Calculate the depth of the sea and wavelength of the pulse .	<b>04</b>

# 110011 Question Paper

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