

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem- 1st 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.

- Q.1** **Answer the following in short** **14**
- (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.
- Q.2** **Answer the following in detail**
- 1 Explain the construction and working of Nd:YAG laser **05**
 - 2 Compare type-I and type-II superconductors. **02**
 - (b) Answer the following in detail**
 - 1 Discuss the advantages of optical fiber communication system over the conventional system. **05**
 - 2 Calculate the NA, the acceptance angle of the fiber having $n_1 = 1.52$ and $n_2 = 1.45$. **02**
- OR**
- (b) Answer the following in detail**
- 1 Discuss the properties, types and applications of metallic glasses **05**
 - 2 A hall has volume of 7500 m^3 . What should be the total absorption in the hall if the reverberation time of 1.5 sec is to be maintained? **02**
- Q.3** **Answer the following in detail**
- (a) Derive the relation between Einstein's coefficients A and B. **05**
 - (b) State the characteristics of laser light. Explain the terms stimulated emission, spontaneous emission, population inversion, optical resonators and active medium **05**
 - (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. **04**

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