

Code No: 132AF

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD

B.Tech I Year II Semester Examinations, May - 2019

APPLIED PHYSICS

(Common to CE, ME, MCT, AE, MIE, PTM, CEE, MSNT)

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B.
 Part A is compulsory which carries 25 marks. Answer all questions in Part A.
 Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART- A

(25 Marks)

- 1.a) Define stress, strain and write their units. [2]
- b) Define Poisson's ratio. [3]
- c) What is the Sabine's formula? Explain. [2]
- d) What is acoustic quieting? [3]
- e) What is Piezoelectric effect? [2]
- f) What are the properties of ultrasonics? [3]
- g) Explain dielectric constant & electrical susceptibility. [2]
- h) Distinguish between Ferro-electricity and Piezoelectricity. [3]
- i) What is Bohr magneton? [2]
- j) Explain ferromagnetism. [3]

PART-B

(50 Marks)

2. What is the Torsional pendulum? Explain how it is used to determine the rigidity modulus of a given wire. [10]
- OR
3. Derive the relation between three modules of elasticity. [10]
4. Explain various factors affecting architectural acoustics and their remedies. [10]
- OR
- 5.a) What are the requisites for good acoustics? [4]
- b) Describe the method of measurement of sound absorption coefficient. [6]
6. Explain how the ultrasonic waves produced with the help of piezoelectric method. [10]
- OR
7. Describe in detail applications of ultrasonic waves. [10]

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