NAT I Engineering Physics

Sr	Questions	Answers Choice
1	Which of the modulus of elasticity is involved in compressing a rod to decrease its length?	A. Young's modulus B. Bulk modulus C. Modulus of rigidity D. None of the above
2	The dimensional formula for the modulus of elasticity is same as that for.	A. Stress B. Strain C. Velocity D. Surface tension
3	The henry is the unit for	A. Resistance B. Magnetic flux C. Magnetic field D. Inductance
4	Energy is stored in the choke coil in the form of	A. Heat B. Magnetic energy C. Electric energy D. Electro -magnetic energy
5	In a capacitive circuit	A. Current leads voltage by phase of $\pi/2$ B. Voltage leads current by phase of $\pi/2$ C. Current and voltage are in same phase D. Sometime current and sometime voltage leads
6	The peak voltage in a 200 volt A.C supply is nearly	A. 220 B. 253 C. 311
7	An ideal choke (used along with fluorescent tube) would be	A. A pure resistor B. A pure capacitor C. A pure inductor D. A combination of an inductor and a capacitor
8	A capacitor acts as an infinite resistance for	A. AC B. DC C. Both AC and DC
9	A 220 V, 50 Hz, AC source is connected to an inductance of 0.2.H and a resistance of 20 ohm in series What is the current in the circuit?	A. 10 A B. 5 A C. 33.3 A D. 3.33 A
10	In an AC circuit a resistance of R ohm i connected in series with an inductance L if phase angle between voltage and current be 45° the value of inductive reactance will be	A. R/4 B. R/2 C. R