Engineering Physics Question Paper Pattern (End Semester Examination)

Q1. Attempt all questions (MCQs)

 (a) Unit 1 - Fundamentals of Photonics (Laser) (b) Unit 1 - Fundamentals of Photonics (Optical Fibers) (c) Unit 2 - Quantum Physics (d) Unit 2 - Quantum Physics (e) Unit 3 - Wave Optics (Interference) (f) Unit 3 - Wave Optics (Polarization) (g) Unit 4 - Semiconductor Physics (h) Unit 4 - Ultrasonics 	1 mark 1 mark 1 Mark 1 Mark 1 Mark 1 Mark 1 Mark 1 Mark
(i) Unit 5 - Superconductivity (j) Unit 5 - Nanotechnology	1 Mark 1 Mark
Q2 (a) Fundamentals of Photonics (Laser) - Long question (b) Fundamentals of Photonics (Optic Fibers) - Short question (c) Fundamentals of Photonics (Optic Fibers) - Short question / Numerical OR	6 marks 3 marks 3 marks
Q3 (a) Fundamentals of Photonics (Optic Fibers) - Long question (b) Fundamentals of Photonics (Laser) - Short question (c) Fundamentals of Photonics (Laser) - Short question	6 marks 3 marks 3 marks
Q4 (a) Quantum Physics - Long question (b) Quantum Physics - Short question (c) Quantum Physics - Numerical OR	6 marks 3 marks 3 marks
Q5 (a) Quantum Physics - Long question (b) Quantum Physics - Short question (c) Quantum Physics - Numerical	6 marks 3 marks 3 marks
Q6 (a) Wave Optics (Interference) - Long question (b) Wave Optics (Polarization) - Short question (c) Wave Optics (Polarization) - Short question / Numerical OR	6 marks 3 marks 3 marks
Q7 (a) Wave Optics (Polarization) - Long question (b) Wave Optics (Interference) - Short question (c) Wave Optics (Interference) - Short question / Numerical	6 marks 3 marks 3 marks
Q8 (a) Semiconductor Physics - Long question (b) Ultrasonic - Short question (c) Ultrasonic - Short question / Numerical OR	6 marks 3 marks 3 marks
Q9 (a) Ultrasonic - Long question (b) Semiconductor Physics - Short question (c) Semiconductor Physics - Short question / Numerical	6 marks 3 marks 3 marks
Q10 (a) Physics of Nanoparticles - Long question (b) Superconductivity - Long question / Short question + Numerical OR	6 marks 6 marks
Q11 (a) Superconductivity - Long question / Short question + Numerical (b) Physics of Nanoparticles - Long question	6 marks 6 marks