Important Note: 1. On completing your answers, compuborily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluate and for equations written eg. 42+8 – 50, will be treated as malpractice.

1	rst/Second Semester B.E. Degree Examination, June/July 2013	
	Engineering Physics	
Time:	nrs. Max. Marks:100	F
2.	nswer any FIVE full questions, choosing at least two from each part. Is wer all objective type questions only on OMR sheet page 5 of the answer booklet. Is wer to objective type questions on sheets other than OMR will not be valued. It is constants: Planck's constant, h = 6.63×10 ⁻³¹ Js, Electron charge, e = 1.6×10 ⁻³² C Electron mass, m = 9.11×10 ⁻³¹ kg, Velocity of light, C = 3×10 ⁸ mS ⁻¹	
1	PART - A hoose the correct answers for the following: (04 Marks	
b. c.	Thoose the correct answers for the following: (04 Marks) If red and blue stars emits radiations of continuous wavelengths, then according to Wien's displacement law. A) Blue star is botter than red star C) Both stars are at same temperature D) Difficult to conclude. The expression for de-Broglie wavelength for an electron under an accelerating potential V is, A) 12.26 m B) 12.26 A° C) 12.26 mm D) 12.26 μm ii) A particle moves with velocity 3×10° ms¹. The wavelength associated with it is 1 nm. Then group velocity of the particle is, A) 3×10° ms¹ B) 3×10° ms¹ C) 3×10° ms¹ D) 1.5×10° ms¹ V) According to the Compton effect, the wavelength of X-rays scattered at an angle greater than zero, A) Decreases B) Doesn't change C) Increases D) None of these period an expression for group velocity on the basis of superposition of waves. Also obtain the relation between group velocity and phase velocity. (08 Marks) alculate the de-Broglie wavelength associated with an electron of energy 1.5 eV. (03 Marks) alculate the de-Broglie wavelength associated with an electron of energy 1.5 eV. (03 Marks)	g s
CI.	arculate the de-Broglie wavelength associated with an electron of energy 1.5 eV. (03 Marks)
2 a.	Choose the correct answers for the following: (04 Marks) The energy of the lowest state in one dimensional potential box of length $a=1$ unit is, (A) $\frac{h^2}{8m}$ B) zero C) $\frac{h^2}{4ma^2}$ D) $\frac{h^2}{2ma^2}$	
	For a particle which is not bound to any system and is free, the energy eigen value is, A) zero B) finite but not quantized D) finite but quantized D) finite but quantized If the uncertainty in the position of a particle is equal to its de-Broglie wavelength ther uncertainty in its momentum will be,	
	A) $\Delta P \ge \frac{h}{4\pi}$ B) $\Delta P \ge \frac{h}{2\pi}$ C) $\Delta P \ge \frac{P}{4\pi}$ D) $\Delta P \ge \frac{h}{P}$ v) For an electron to be present inside the nucleus of an atom the uncertainty in the position of the electron must be, A) more than or equal to the radius of the nucleus B) more than or equal to the diameter of the nucleus.	

Lof4

D) less than or equal to the diameter of the nucleus.

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