

**First/Second Semester B.E. Degree Examination, June/July 2013**  
**Engineering Physics**

Time: 3 hrs.

Max. Marks:100

Note: 1. Answer any FIVE full questions, choosing at least two from each part.

2. Answer all objective type questions only on OMR sheet page 5 of the answer booklet.

3. Answer to objective type questions on sheets other than OMR will not be valued.

4. Physical Constants : Planck's constant,  $h = 6.63 \times 10^{-34}$  Js, Electron charge,  $e = 1.6 \times 10^{-19}$  C  
Electron mass,  $m = 9.11 \times 10^{-31}$  kg, Velocity of light,  $C = 3 \times 10^8$  mS<sup>-1</sup>**PART - A**

- 1 a. Choose 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 hotter than red star  
 B) Red star is hotter than blue 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)  $\frac{12.26}{\sqrt{V}}$  m  
 B)  $\frac{12.26}{\sqrt{V}}$  Å  
 C)  $\frac{12.26}{\sqrt{V}}$  nm  
 D)  $\frac{12.26}{\sqrt{V}}$  µm
  - A particle moves with velocity  $3 \times 10^8$  ms<sup>-1</sup>. The wavelength associated with it is 1 nm. Then group velocity of the particle is,  
 A)  $3 \times 10^8$  mS<sup>-1</sup>  
 B)  $3 \times 10^{10}$  mS<sup>-1</sup>  
 C)  $3 \times 10^6$  mS<sup>-1</sup>  
 D)  $1.5 \times 10^6$  mS<sup>-1</sup>
  - 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
- b. Derive an expression for group velocity on the basis of superposition of waves. Also obtain the relation between group velocity and phase velocity. (08 Marks)
- c. Show that Planck's law reduces to Wien's law and Rayleigh-Jeans law under certain conditions. (05 Marks)
- d. Calculate 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  
 C) infinity  
 D) finite but quantized
  - If the uncertainty in the position of a particle is equal to its de-Broglie wavelength then uncertainty in its momentum will be,  
 A)  $\Delta P \geq \frac{h}{4\pi}$   
 B)  $\Delta P \geq \frac{h}{2\pi}$   
 C)  $\Delta P \geq \frac{P}{4\pi}$   
 D)  $\Delta P \geq \frac{h}{P}$
  - 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.  
 C) more than the diameter of the nucleus  
 D) less than or equal to the diameter of the nucleus.



# Grade 1physics June 2013 Question Paper

**Arihant Experts**



**Grade 1physics June 2013 Question Paper:**

Grade 1physics June 2013 Question Paper: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have charmed audiences this year. Grade 1physics June 2013 Question Paper : Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Grade 1physics June 2013 Question Paper : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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