



First/Second Semester B.E./B.Tech. Degree Examination, June/July 2023
Physics for CSE Stream

Max. Marks: 100

- Note:**
1. Answer any FIVE full questions, choosing ONE full question from each module.
 2. VTU Formula Hand Book is permitted.
 3. M : Marks , L: Bloom's level , C: Course outcomes.
 4. Constants : Speed of Light $C = 3 \times 10^8 \text{ m/s}$, Boltzmann const. $K = 1.38 \times 10^{-23} \text{ J/K}$, Planck's const $h = 6.625 \times 10^{-34} \text{ JS}$, Acceleration due to gravity $g = 9.8 \text{ m/s}^2$, mass of electron $m = 9.1 \times 10^{-31} \text{ Kg}$

Module - 1			M	L	C
Q.1	a.	Derive an expression for energy density in terms of Einstein's coefficients in Laser action.	10	L2	CO1
	b.	Explain types of optical fibers.	6	L2	CO1
	c.	The ratio of population inversion of two energy levels is 1.059×10^{-30} . Find the wavelength of Light emitted by spontaneous emissions at 330K.	4	L3	CO1
OR					
Q.2	a.	Derive an expression for Numerical aperture in an optical fiber.	8	L2	CO1
	b.	Discuss construction and working of semiconductor diode Laser with energy level diagram.	8	L2	CO1
	c.	The angle of acceptance of an optical fiber is 30° , when kept in air. Find the angle of acceptance when it is in a medium of refractive index 1.33.	4	L3	CO1
Module - 2					
Q.3	a.	What is wave packet? Give physical significance and properties of wave function? Define group velocity.	8	L2	CO1
	b.	State and explain Heisenberg's uncertainty principle. Give its physical significance. Show that electron cannot exist inside the nucleus.	8	L2	CO2
	c.	A particle of mass $0.5 \text{ MeV}/c^2$ has kinetic energy 100eV. Find its de Broglie wavelength, where 'C' is the velocity of light.	4	L3	CO2
OR					
Q.4	a.	Derive an expression for Schrödinger's Time independent equation one dimensional form.	8	L2	CO2
	b.	Obtain the expression for energy eigen values using Schrodinger's time independent equation.	8	L2	CO2
	c.	In a measurement of position and velocity of an electron moving with a speed of $6 \times 10^7 \text{ m/s}$, calculate highest accuracy with which its position could be determined, if the inherent error in the measurement of its velocity is 0.01% for the speed stated.	4	L3	CO2

F335 Question Paper June 2013

**International Monetary
Fund, International Labour
Office, Statistical Office of the
European Communities, United Nations
Economic Commission for
Europe, Organisation for Economic Co-
operation and Development, World
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Consumer Price Index Manual International Monetary Fund, International Labour Office, Statistical Office of the European Communities, United Nations Economic Commission for Europe, Organisation for Economic Co-operation and Development, World Bank, 2025-06-30 The Theory publication and the companion on the practice of compiling consumer price indices CPIs is jointly published by the member agencies of the Inter Secretariat Working Group on Price Statistics IWGPS the Statistical Office of the European Union Eurostat the International Labour Organization ILO the IMF the Organisation for Economic Cooperation and Development OECD the United Nations Economic Commission for Europe UNECE and the World Bank The IMF managed the update of the Theory publication and the CPI Manual Drafting of this publication was led by Erwin Diewert with support from various authors The Theory publication will be translated into Spanish French Arabic and Russian

F335 Question Paper June 2013 Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**F335 Question Paper June 2013**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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web we will make some simplifying assumptions for this new planetary system the orbit of the planet is circular $e = 0$ the mass of the star is 1 solar mass the mass of the planet is much much less than that of the star we are viewing the system nearly edge on

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