

BE (I & II Sem.) EXAMINATION, Nov.-Dec, 2015
UIT (Autonomous) RGPV
Engineering Physics / Physics
PH – 1051 / BE - 201

Time : Three Hours
 Maximum Marks : 100

Note : Note : Attempt all questions. All questions carry equal marks. Parts a,b,c of each question are compulsory, and d & e part will have an internal choice. All subparts of a question should be answered at one place.

UNIT - I

- | | | |
|------|---|----|
| 1 a. | What is de Broglie hypothesis? Why we cannot observe matter wave practically for macroscopic object? | 3 |
| b. | Derive momentum and energy operators. | 3 |
| c. | Distinguish between phase velocity and group velocity. Derive relation between them. | 4 |
| d. | State Heisenberg uncertainty principle? Apply it to prove that electron cannot exist independently inside the nucleus.
Calculate the uncertainty in the position of a dust particle with mass equal to 1 mg if uncertainty in its velocity is 5.5×10^{-20} m/s. | 10 |

OR

- | | | |
|----|--|----|
| e. | What are the properties of an acceptable wave function? Give its physical significance. Derive the energy eigen values and normalized wave functions for a particle in one dimensional infinite square well potential of width L . | 10 |
|----|--|----|

UNIT – II

- | | | |
|------|--|----|
| 2 a. | Using Rayleigh criterion derive resolving power of grating. | 3 |
| b. | What do you mean by coherent sources? Give the two ways to get them with examples of each. | 3 |
| c. | Describe Michelson interferometer with diagram. What is the condition to get circular fringes? | 4 |
| d. | Describe the formation of bright and dark circular fringes by reflected monochromatic light in the Newton's ring experiment. What will happen to the observed rings if a drop of water is introduced between the glass plate and the lens?
In a Newton's ring experiment the diameter of the 10^{th} ring changes from 1.40cm to 1.27cm when a liquid is introduced between the lens and the glass plate. Calculate the refractive index of the liquid. | 10 |

OR

- | | | |
|----|---|----|
| e. | Explain the phenomenon of double refraction in a calcite crystal. Describe the construction, working, and use of Nicol prism. Differentiate between quarter-wave plate and half-wave plate. | 10 |
|----|---|----|

Gce C3 Jan 2015 Question Paper

Y Pai



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THE GLASS MENAGERIE, [MUSIC: 'THE GLASS MENAGERIE' UNDER FAINTLY. Lightly.] Not one gentleman ... [MUSIC: 'THE GLASS MENAGERIE'. He stretches out his hand.] Oh, be careful - if ... The Glass Menagerie book script of the play.

[SCREEN LEGEND: 'OÙ SONT LES NEIGES.')] There was young Champ Laughlin who later became vice-president of the Delta Planters. Bank. The Glass Menagerie - Tennessee Williams (AMANDA exits through living-room curtains. TOM is left with LAURA. He stares at her stupidly for a moment. Then he crosses to shelf holding glass menagerie. The Glass Menagerie Amanda Wingfield is a faded, tragic remnant of Southern gentility who lives in poverty in a dingy St. Louis apartment with her son, Tom, and her daughter, ... The Glass Menagerie When Amanda convinces Tom to bring home from his workplace a "gentleman caller" for Laura, the illusions that Tom, Amanda, and Laura have each created in order ... The Glass Menagerie Text Scene 1: The Wingfield apartment is in the rear of the building, one of those vast hive-like conglomerations of cellular living-units that flower as. Tennessee Williams - The Glass Menagerie (Scene 3) LEGEND ON SCREEN: 'AFTER THE FIASCO' [TOM speaks from the fire-escape landing.] TOM: After the fiasco at Rubicam's Business College, the idea of getting a ... "The Glass Menagerie," Scene One and Scene Two, by ... 41 Scene 1. 352 The Wingfield apartment is in the rear of the building, one of those vast hive-like conglomerations of cellular living-units that flower as ... Tennessee Williams - The Glass Menagerie (Scene 7) A moment after the curtain rises, the lights in both rooms flicker and go out.] JIM: Hey, there, Mr Light Bulb ! [AMANDA laughs nervously. LEGEND: 'SUSPENSION ... The Glass Menagerie: Acting Edition: Tennessee Williams A new introduction by the editor of The Tennessee Williams Annual Review, Robert Bray, reappraises the play more than half a century after it won the New York ... Shelter Poverty: New Ideas on Housing Affordability - jstor Why does it exist and persist? and How can it be overcome? Describing shelter poverty as the denial of a universal human need, Stone offers a quantitative scale ... Shelter Poverty - Philadelphia - Temple University Press In Shelter Poverty, Michael E. Stone presents the definitive discussion of housing and social justice in the United States. Challenging the conventional ... Shelter Poverty: The Chronic Crisis of Housing Affordability by ME Stone · 2004 · Cited by 45 — This paper examines housing affordability in the United States over the past three decades using the author's concept of "shelter poverty. Shelter Poverty: New Ideas on Housing Affordability - ProQuest by RG Bratt · 1995 · Cited by 5 — Shelter Poverty is a carefully crafted and well-argued book that is certain to become a classic in the housing literature. Its cogent analyses and compelling ... Shelter Poverty: New Ideas on Housing Affordability - Softcover In "Shelter Poverty", Michael E. Stone presents the definitive discussion of housing and social justice in the United States. Challenging the conventional ... Shelter Poverty: New Ideas on Housing Affordability In Shelter Poverty, Michael E. Stone presents the definitive discussion of housing and social justice in the United States. Challenging the conventional ... Stone, M. E. (1993). Shelter Poverty New Ideas on Housing ... The paper is an evaluation of adequate rental housing affordability by workers in relation to their income levels and other household needs, using the staff of ... Shelter Poverty: New Ideas on Housing Affordability... Shelter Poverty: New Ideas on Housing Affordability... by Michael E. Stone. \$37.29 Save \$43.21! List Price: \$80.50. Select Format. Format: Hardcover (\$37.29). Amazon.com: Customer reviews: Shelter Poverty Find helpful customer reviews and review ratings for Shelter Poverty: New Ideas on Housing

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