

Sample Question Paper

Course Name : Mechanical Engineering Group

Course Code : AE/FE/ME/MH/ML/PG/PT/PS

Semester : Second

Subject Title : Applied Science (Physics)

Marks : 50

17202

Time:2 Hour

Instructions:

1. All questions are compulsory.
2. Illustrate your answers with neat sketches wherever necessary.
3. Figures to the right indicate full marks.
4. Assume suitable data if necessary.
5. Preferably, write the answers in sequential order.

Q.1 Attempt any NINE

18 Marks

- a. State equations of angular motion. State meanings of symbols used in it.
- b. State Newton's third law of motion with suitable examples.
- c. A load is pulled 80m along the horizontal by a force of 800 N at 45° to the horizontal. Calculate work done.
- d. Define centrifugal force.
- e. Draw a circuit diagram for production of ultrasonic waves by piezoelectric method.
- f. State Joule's effect.
- g. What is thermoelectric series? Write Seebeck effect.
- h. State any two properties of photon.
- i. State necessary conditions to obtain photoelectric emission.
- j. State any two scientific applications of X-rays.
- k. Define X-rays.
- l. Define optical pumping.

Q.2 Attempt any FOUR

16 Marks

- a. Define kinetic energy. A vehicle of mass 80 kg is moving with 50 km/hr. Calculate kinetic energy.
- b. Define angle of projection, trajectory, time of flight, range.
- c. State properties of ultrasonic waves.
- d. State any four advantages of NDT methods.
- e. State principle, procedure and applications of ultrasonic testing.
- f. A train crosses a tunnel in 20 second. At the entry of the tunnel its velocity is 80 km/hr and at exit of tunnel it is 40km/hr. Find the length of tunnel.

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L Darling-Hammond



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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 ... Lila: An Inquiry into Morals Lila: An Inquiry into Morals (1991) is the second philosophical novel by Robert M. Pirsig, who is best known for Zen and the Art of Motorcycle Maintenance. Lila: An Inquiry Into Morals by Robert M. Pirsig It provides a framework for better understanding the role that "Quality" - which is not definable via language - can play in a world dominated by scientific ... Lila: An Inquiry Into Morals (Phaedrus, #2) ... In this

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