



Republic of the Philippines
Professional Regulation Commission
Manila



“NOT FOR SALE”

PROFESSIONAL REGULATORY BOARD OF AERONAUTICAL ENGINEERING

PROGRAM OF THE AERONAUTICAL ENGINEERS LICENSURE EXAMINATION IN MANILA ON NOVEMBER 12, 13 AND 14, 2019

DATE AND TIME	SUBJECTS	RELATIVE WEIGHT
<u>TUESDAY, NOVEMBER 12, 2019</u>		
7:00 A.M.-7:45 A.M.	GENERAL IMSTRUCTIONS FILLING OUT OF FORMS	
8:00 A.M.-12:00 NOON	AERODYNAMICS Fundamentals of Low-High Speed Aerodynamics Application of Aerodynamics to Fixed/ Rotary Wing Aircraft Configurations, Performance, Stability and Control; Wind Tunnels and Applications	25%
2:00 P.M. – 5:00 P.M.	MATHEMATICS Algebra, Trigonometry, Analytical Geometry, Calculus and Differential Equations with Aeronautical Engineering Applications	10%
<u>WEDNESDAY, NOVEMBER 13, 2019</u>		
8:00 A.M.-12:00 NOON	AIRCRAFT STRUCTURES AND DESIGN Aircraft Design Fundamentals; Structural Loading Conditions; Structural Analysis and Design of Airframe Components; Landing Gears, Engine Mounts and Other Structural Parts; Non- Structural Components Design	20%
2:00 P.M.-5:00 P.M.	AIRCRAFT CONSTRUCTION, REPAIR AND MODIFICATION Aircraft Materials and Processes; Methods and Techniques in Repair and Modification in accordance with Civil Airworthiness Regulations; Manufacturing/Production Processes and Quality Assurance	15%
<u>THURSDAY, NOVEMBER 14, 2019</u>		
8:00 A.M.- 12:00 NOON	AIRCRAFT POWER PLANT Thermodynamics and Power Plant Design and Operation Fundamentals with Applications to Internal Combustion Engine Reciprocating Engines Aircraft Gas Turbines, Pulsejet and Ramjet, Rocket Propulsion System and other Aircraft Power Systems	20%
2:00 P.M.-5:00 P.M.	ENGINEERING ECONOMICS AND MANAGEMENT LAWS AND ETHICS Principle of Economics and Management as Applied to Aviation Industry; Laws, Rules and Regulations Governing the Practice of Aeronautical Engineering to include PD 1570, Rules and Regulations with Code of Professional Ethics of the Board of Aeronautical Engineering and others	10%
TOTAL.....		100%

