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

TUESDAY, NOVEMBER 12, 2019
7:00 A.M.-7:45 A.M.    GENERAL INSTRUCTIONS                             FILLING OUT OF FORMS

8:00 A.M.-12:00 NOON  AERODYNAMICS                                       25%
Fundamentals of Low-High Speed Aerodynamics
Application of Aerodynamics to Fixed/ Rotary Wing
Aircraft Configurations, Performance, Stability and
Control; Wind Tunnels and Applications

2:00 P.M. – 5:00 P.M.  MATHEMATICS                                      10%
Algebra, Trigonometry, Analytical Geometry, Calculus
and Differential Equations with Aeronautical
Engineering Applications

WEDNESDAY, NOVEMBER 13, 2019
8:00 A.M.-12:00 NOON  AIRCRAFT STRUCTURES AND DESIGN                     20%
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

2:00 P.M.-5:00 P.M.   AIRCRAFT CONSTRUCTION, REPAIR AND
MODIFICATION                                                      15%
Aircraft Materials and Processes; Methods and
Techniques in Repair and Modification in accordance
with Civil Airworthiness Regulations; Manufacturing/Production Processes and Quality
Assurance

THURSDAY, NOVEMBER 14, 2019
8:00 A.M.-12:00 NOON  AIRCRAFT POWER PLANT                               20%
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

2:00 P.M.-5:00 P.M.   ENGINEERING ECONOMICS AND MANAGEMENT
LAWS AND ETHICS                                                 10%
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

TOTAL..................................  100%
GENERAL INSTRUCTIONS:

1. Check or verify your school building assignments at the PRC official website (www.prc.gov.ph) or through the Notices/Announcements to be posted at the PRC premises two (2) to three (3) working days before the examination. Bring your NOTICE OF ADMISSION when you verify your school/building assignment. Visit your school/building prior to the day of the examination.

2. Report to the school/building assignment before 6:30 a.m. on the first day of the examination to verify your room and seat number. Be punctual. Late examinees will not be admitted.

3. Examinees are required to wear the following attire every examination day:
   - Male Examinees - White polo shirt or shirts with collar, tucked-in (without any seal, logo or mark)
   - Female Examinees - White blouse or shirts with collar (without any seal, logo or mark)
   - Decent pants or slacks

4. Bring the following on examination day:
   a. Notice of Admission
   b. Official Receipt
   c. Two (2) or more pencils
   d. Ball pens with BLACK ink only
   e. One (1) piece long brown envelope
   f. One (1) piece long transparent/plastic envelope (for keeping your valuables and other allowed items)

5. The following are PROHIBITED inside the examination premises/rooms.
   a. Books, notes, review materials, and other materials containing coded data/information/formula.
   b. PROGRAMMABLE CALCULATORS.
   c. CELLULAR PHONES, EAR PLUGS, TRANSMITTERS, PORTABLE COMPUTERS, SMART WATCHES, BLUETOOTH AND OTHER ELECTRONIC GADGETS/DEVICES WHICH MAY BE USED FOR COMMUNICATION PURPOSES;
   d. Bags of any kind (ladies bag, shoulder bags, attaché case, backpacks, etc.);
   e. Other examination aides not stated on this program.

6. Read carefully and follow the instruction on your Notice of Admission and Examinees Guide.

Manila, Philippines

APPROVED:

[Signature]

Chairman

CERTIFIED CORRECT:

[Signature]

ATTY LOVELIKA T. BAUTISTA
Chief, PRB Secretariat Division

PRB-AE/D-SRB
EBF/LTB/May